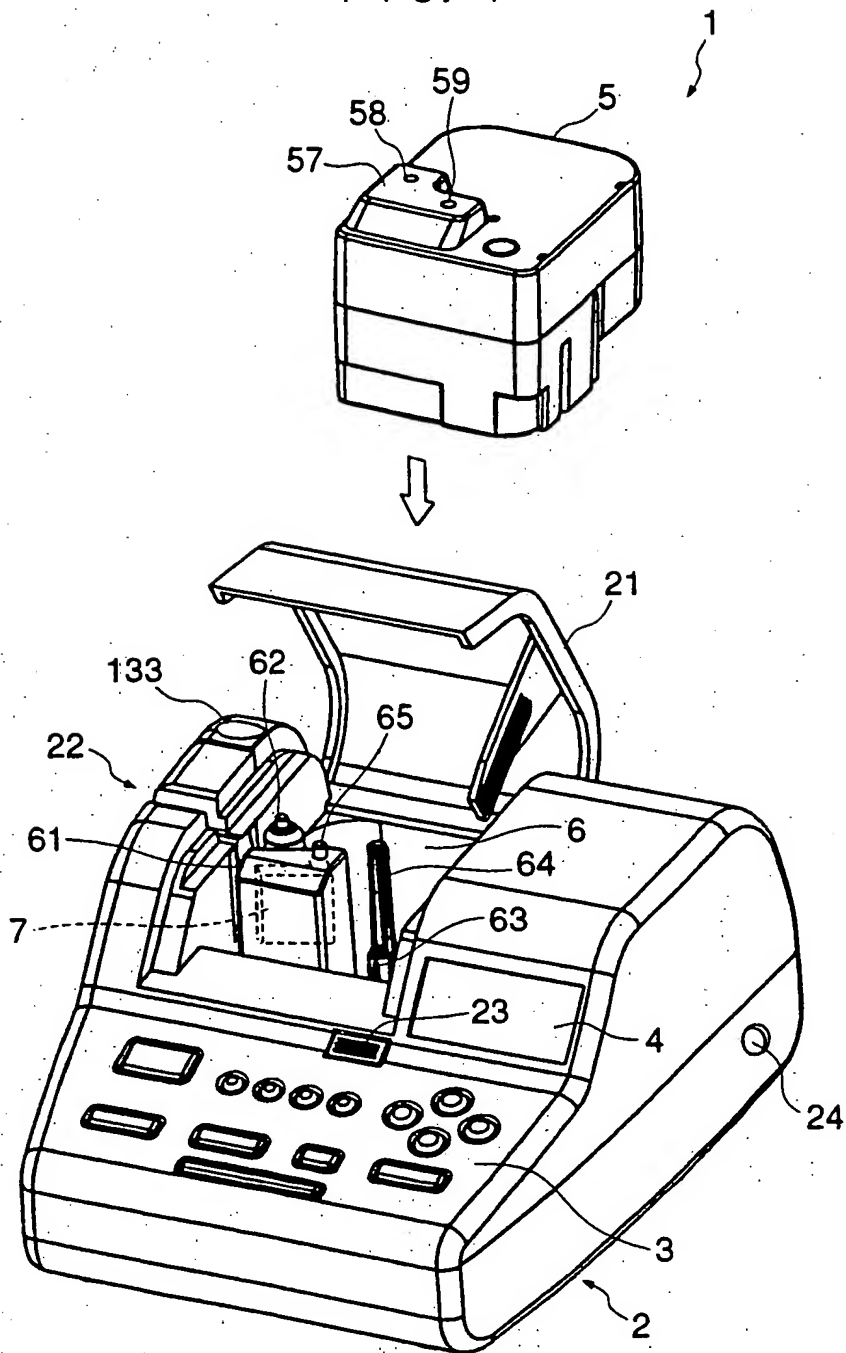




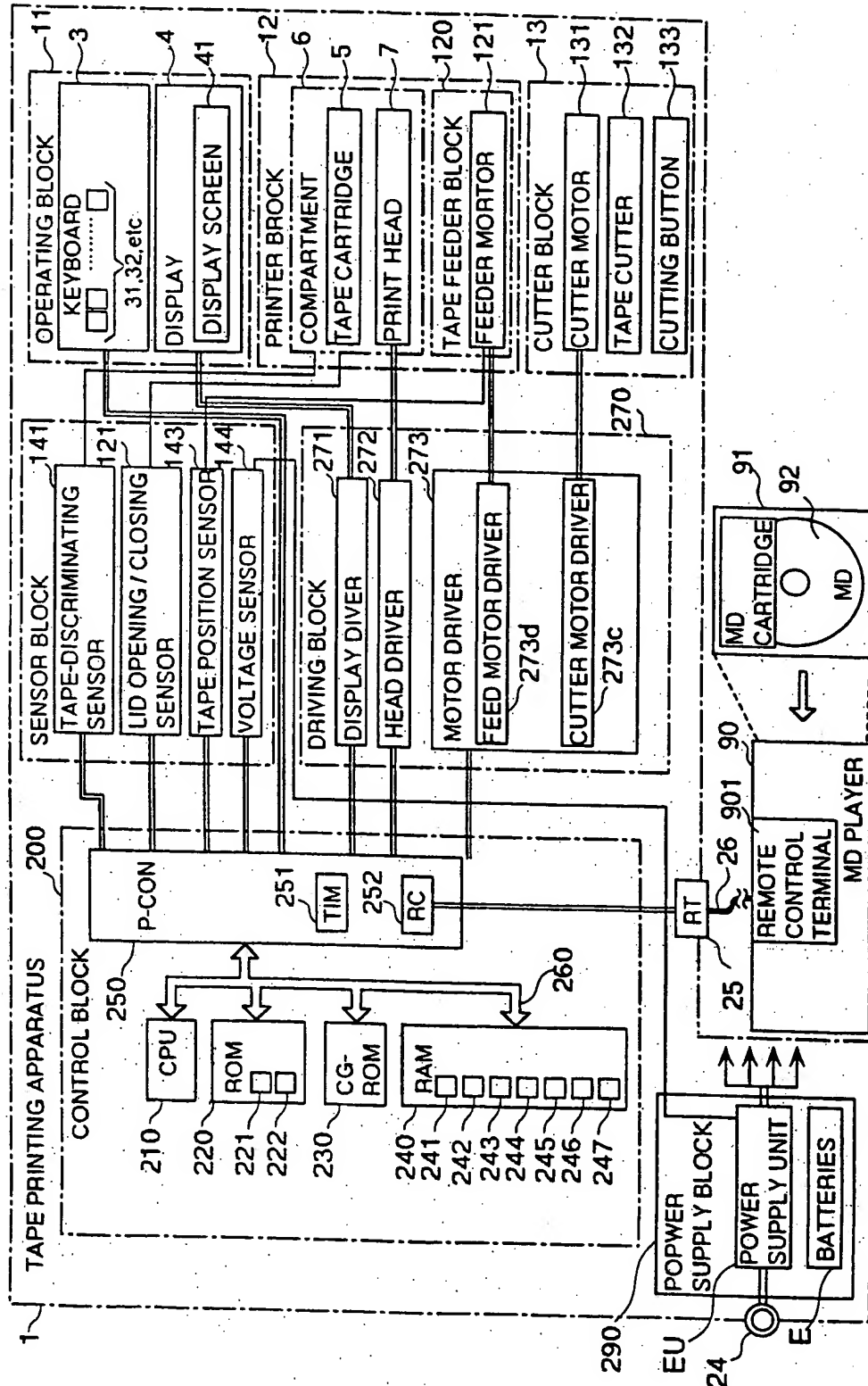
1/76

FIG. 1



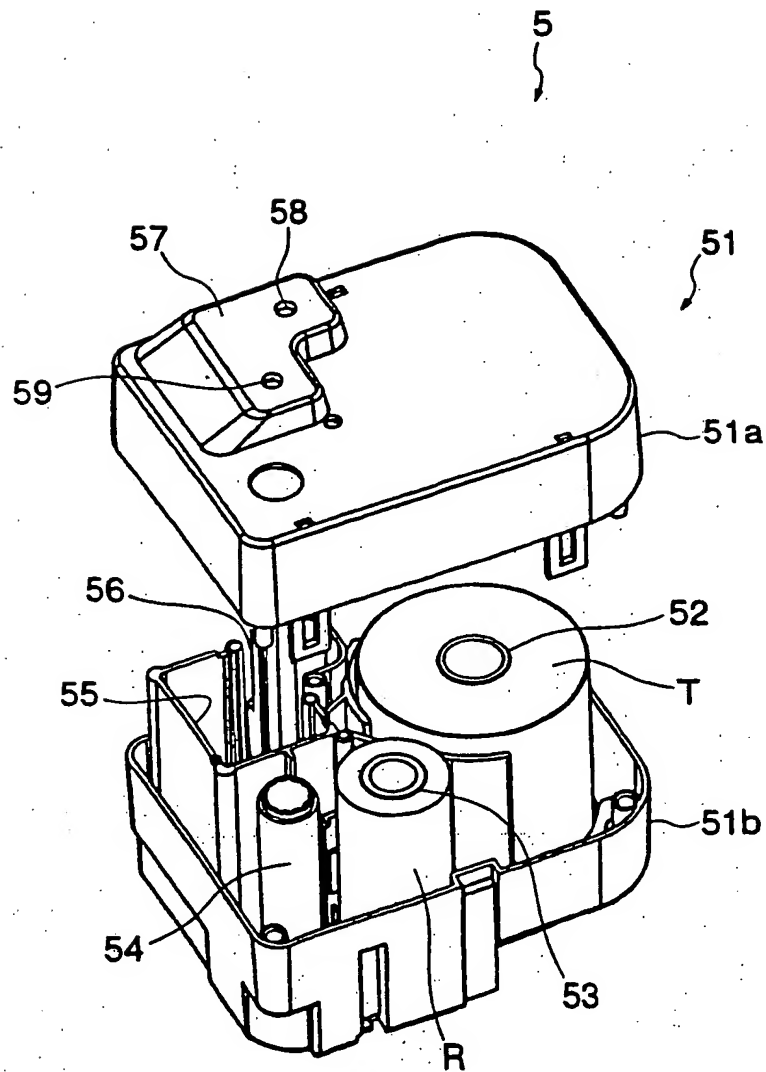
2/76

FIG. 2



3/76

FIG. 3



4/76

FIG. 4A

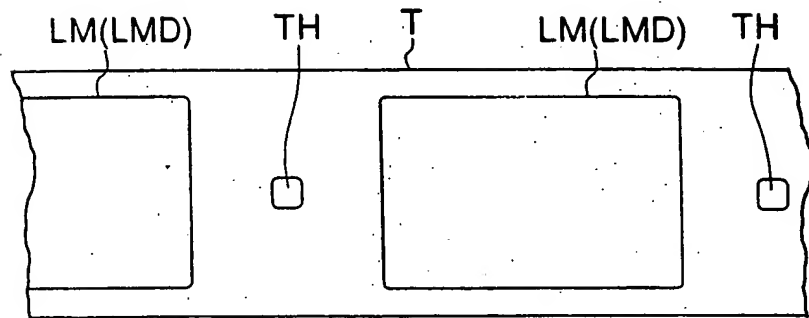
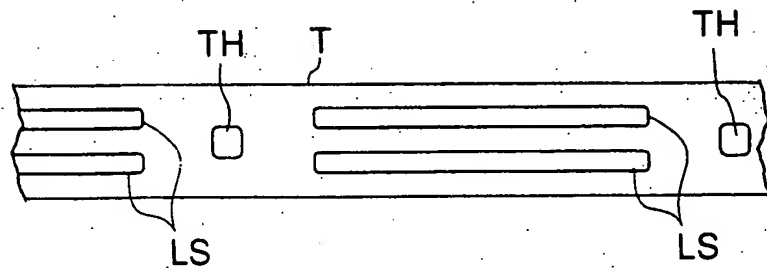


FIG. 4B



5/76

FIG. 5A

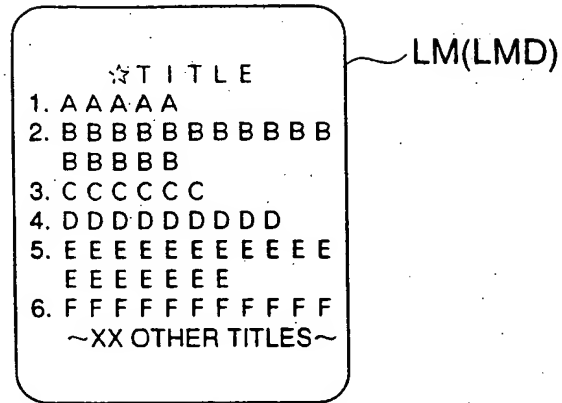


FIG. 5B

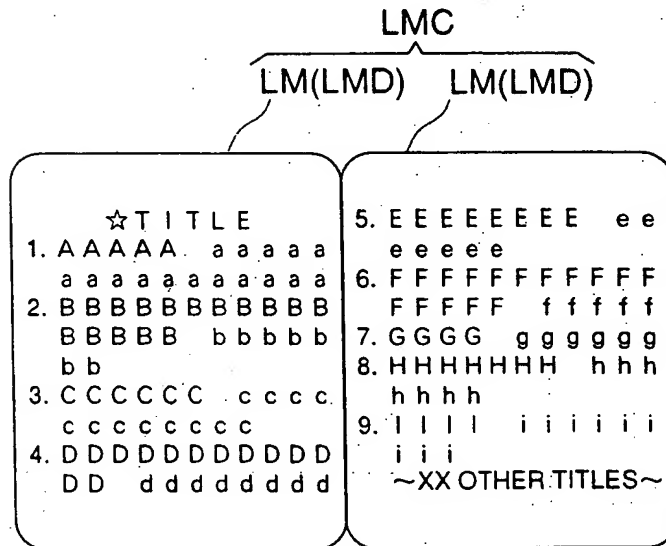
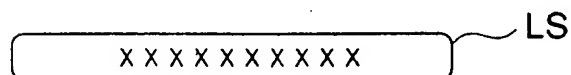
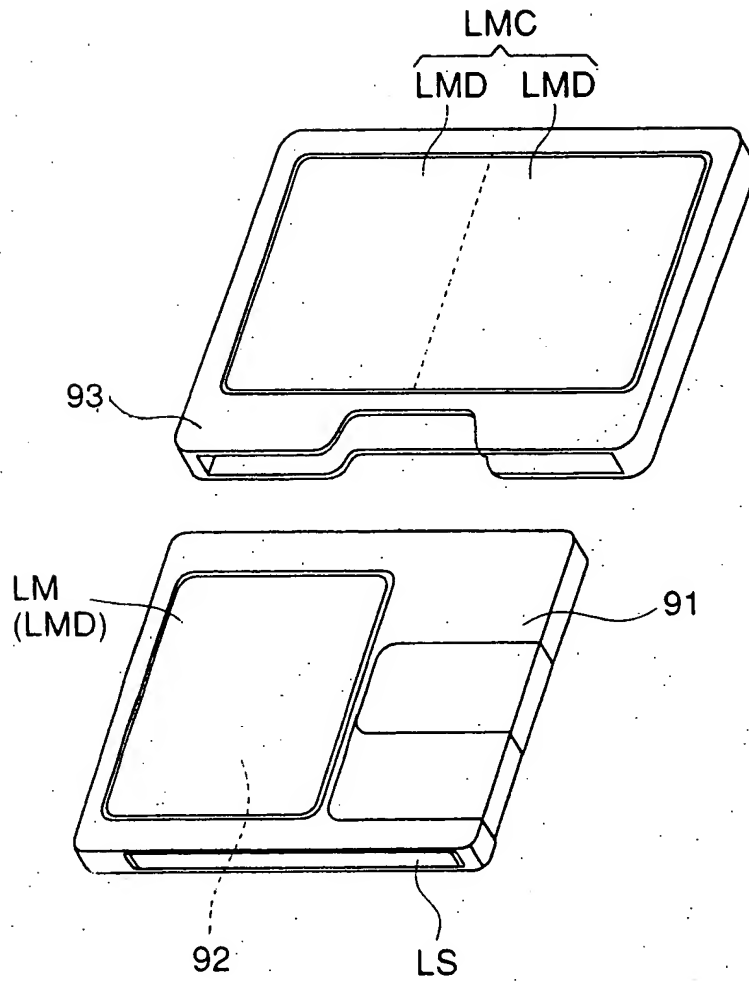


FIG. 5C



6/76

FIG. 6



7/76

FIG. 7

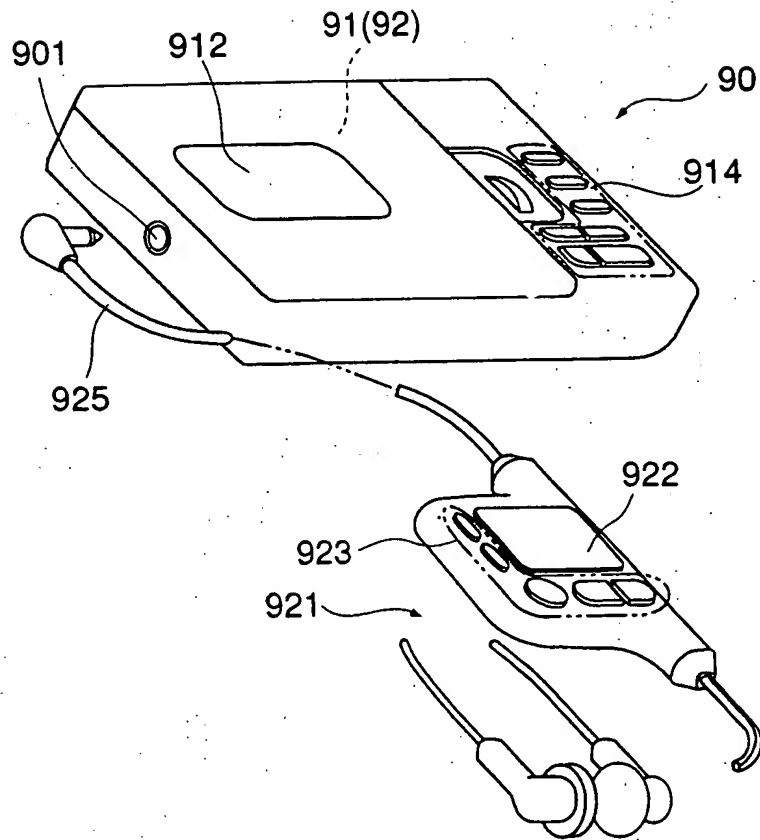
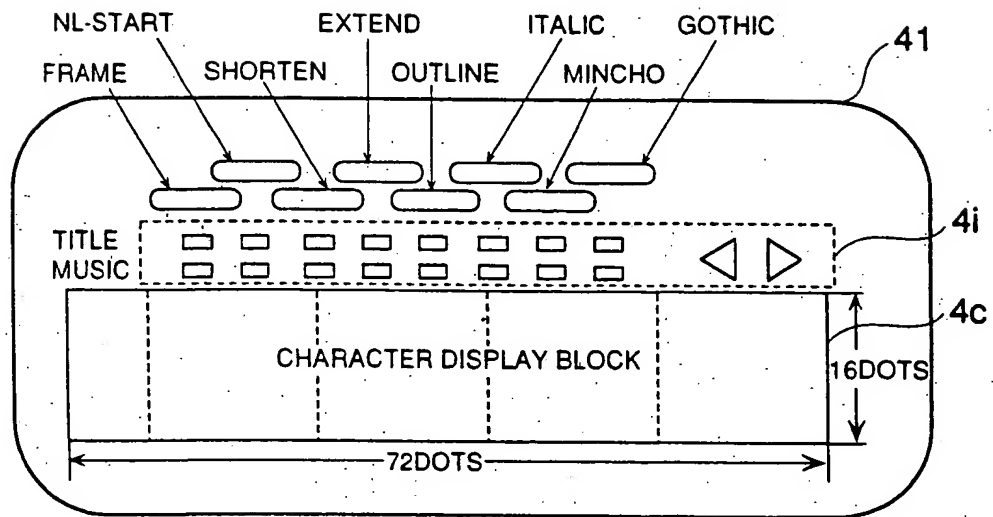


Figure 1 is a schematic diagram of a control panel for a character display device. The panel includes a 'POWER' button (31) and four 'CHARACTER DECORATION' buttons (34F, 34C, 34D, 35) arranged in a row. Below these are four 'CHARACTER ENTRY' buttons (36, 37, 38, 39) and a 'SHIFT' button (32). To the right is a 'DELETE / CANCEL' button (33) with four directional arrows (33U, 33R, 33L, 33D). Labels include 'FRAME', 'FORMAT', 'ADJUSTMENT', 'ALL CHARACTER DELETE', 'LINE READ', 'CONVERSION MODE', and 'FIGURE / SYMBOL'.

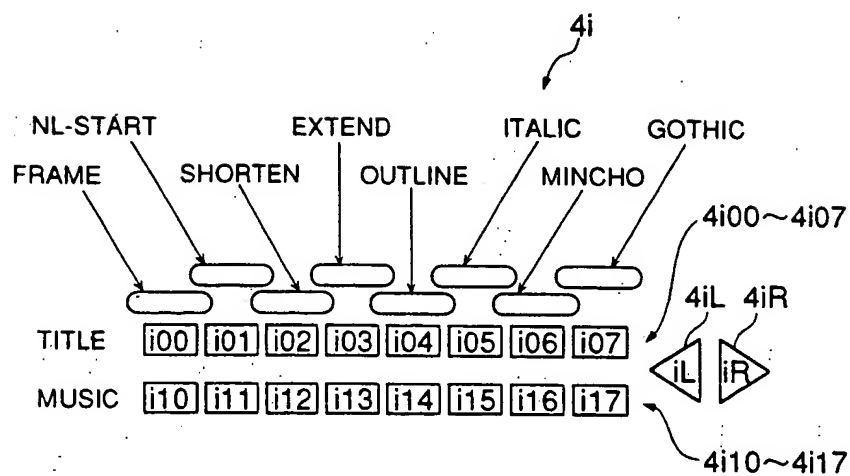
9/76

FIG. 9



10/76

FIG. 10



11/76

FIG. 11A

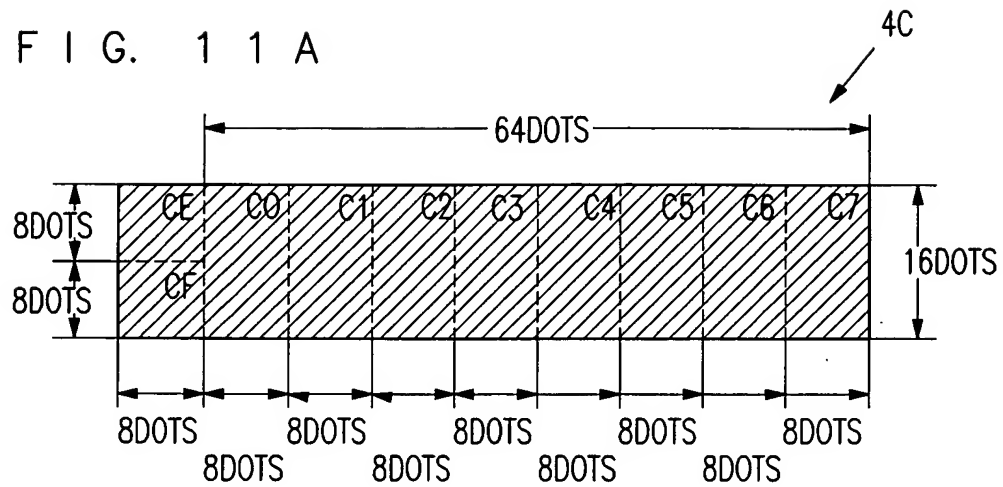
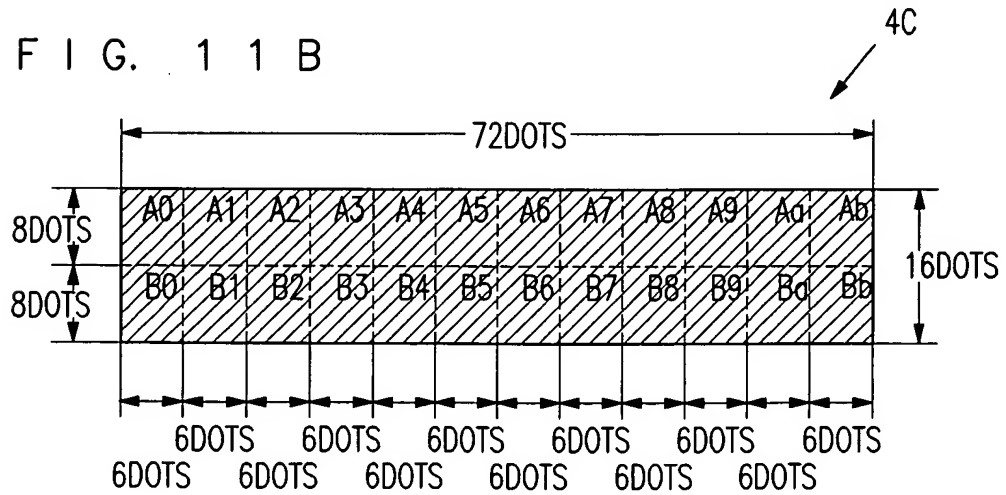


FIG. 11B



12/76

FIG. 12A

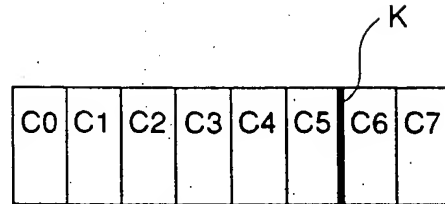


FIG. 12B

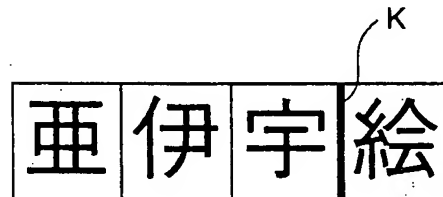


FIG. 12C

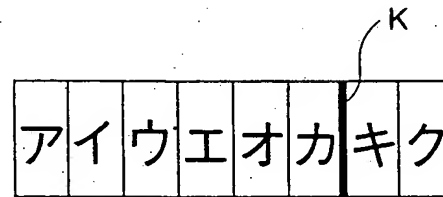


FIG. 12D

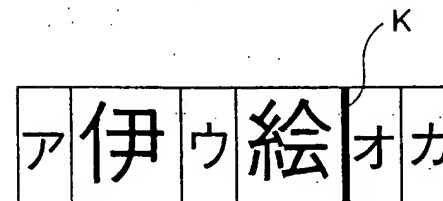
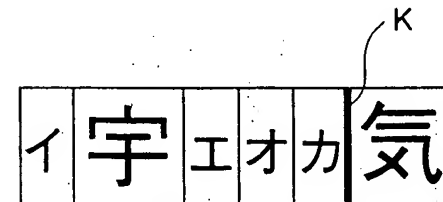
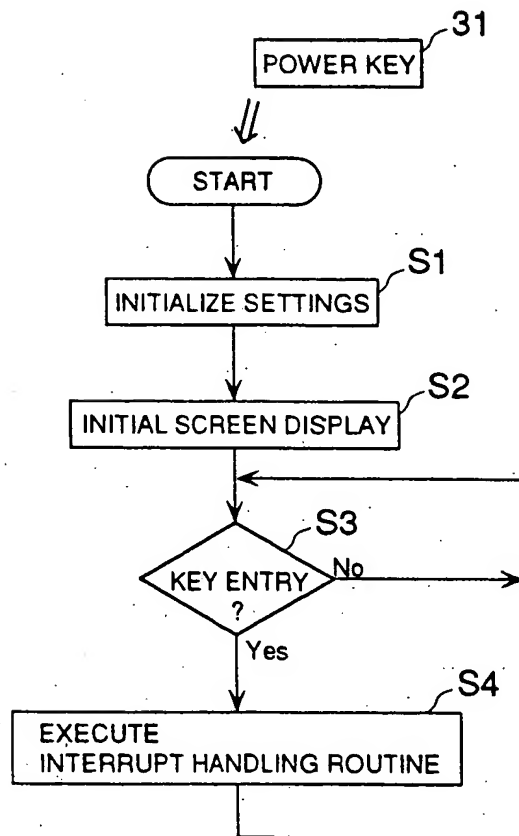


FIG. 12E



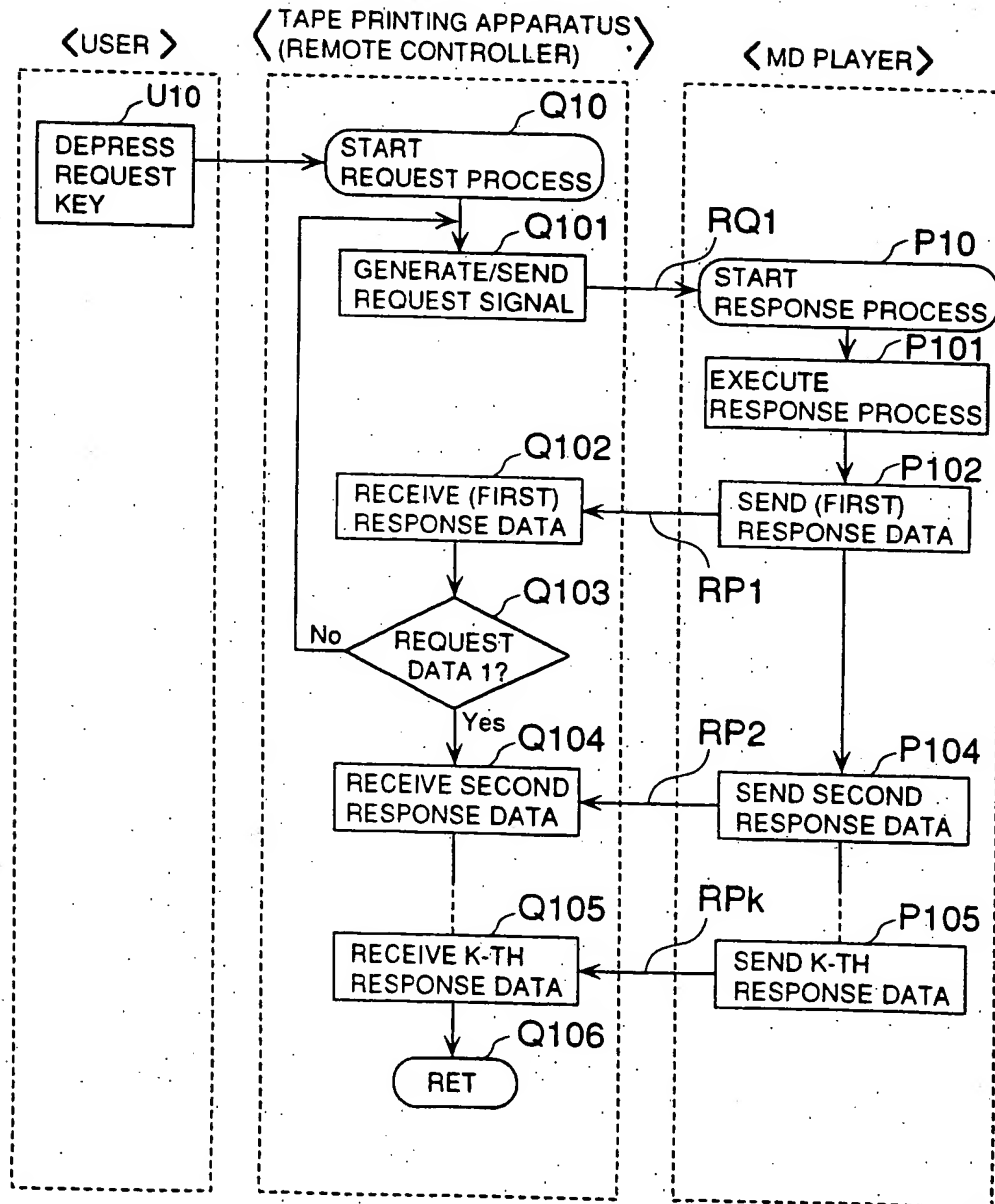
13/76

FIG. 13



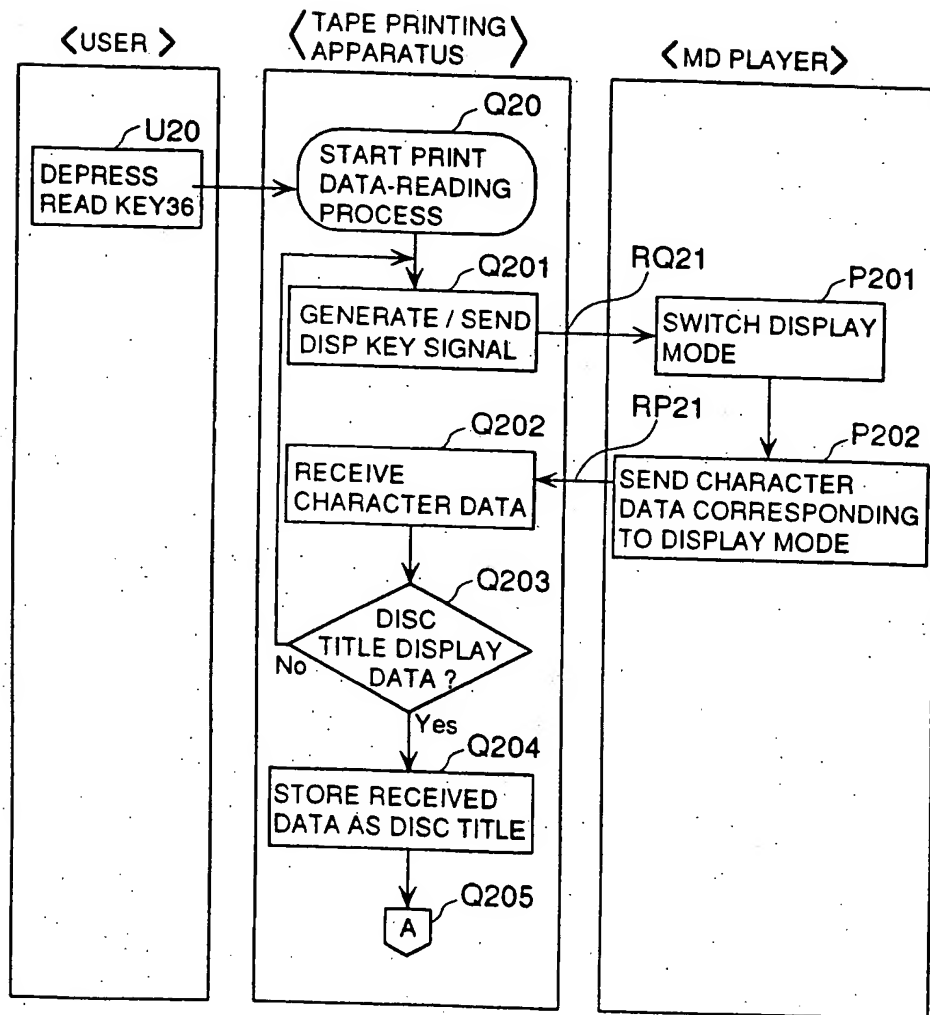
14/76

FIG. 14



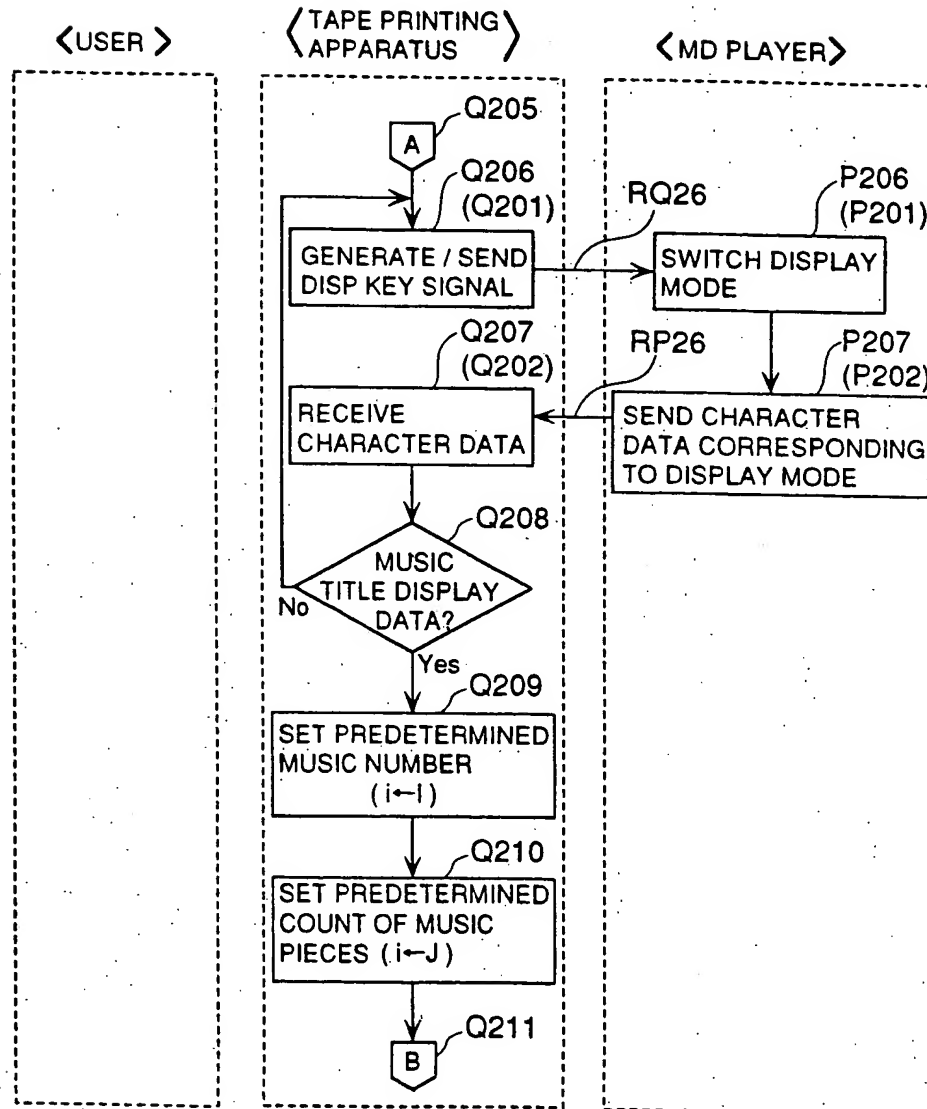
15/76

FIG. 15



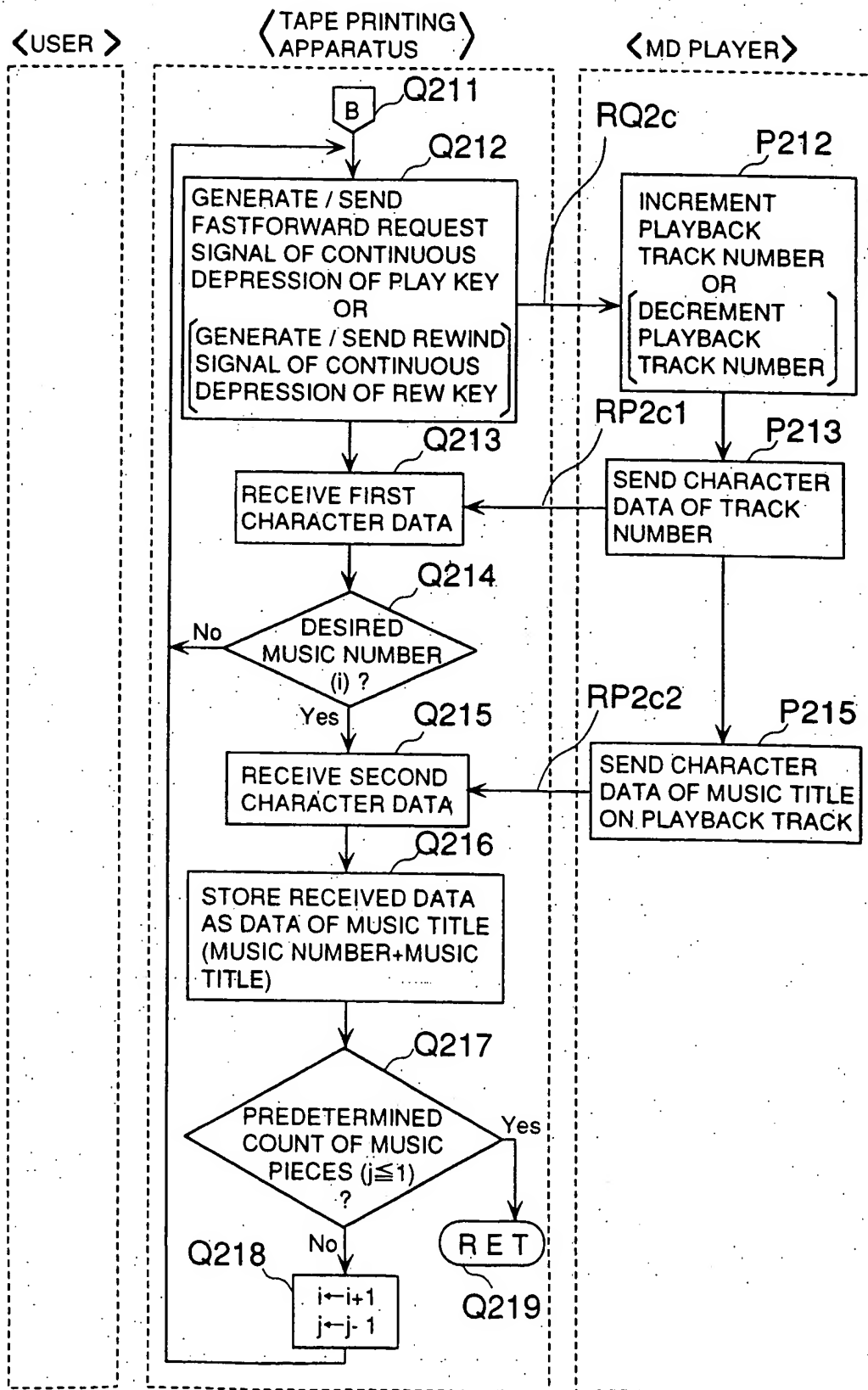
16/76

FIG. 16



17/76

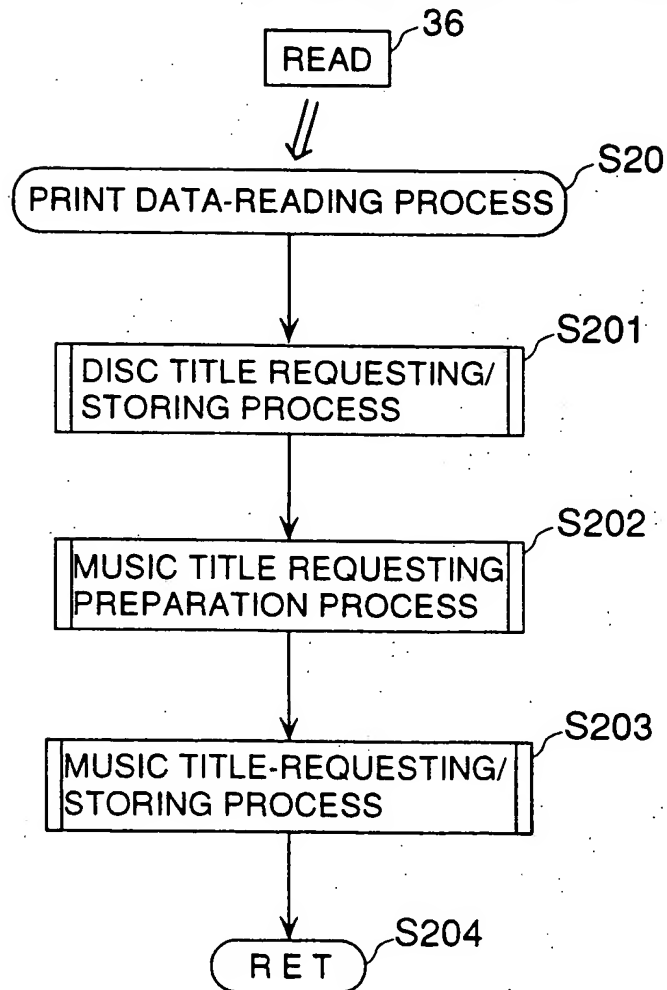
FIG. 17



18/76

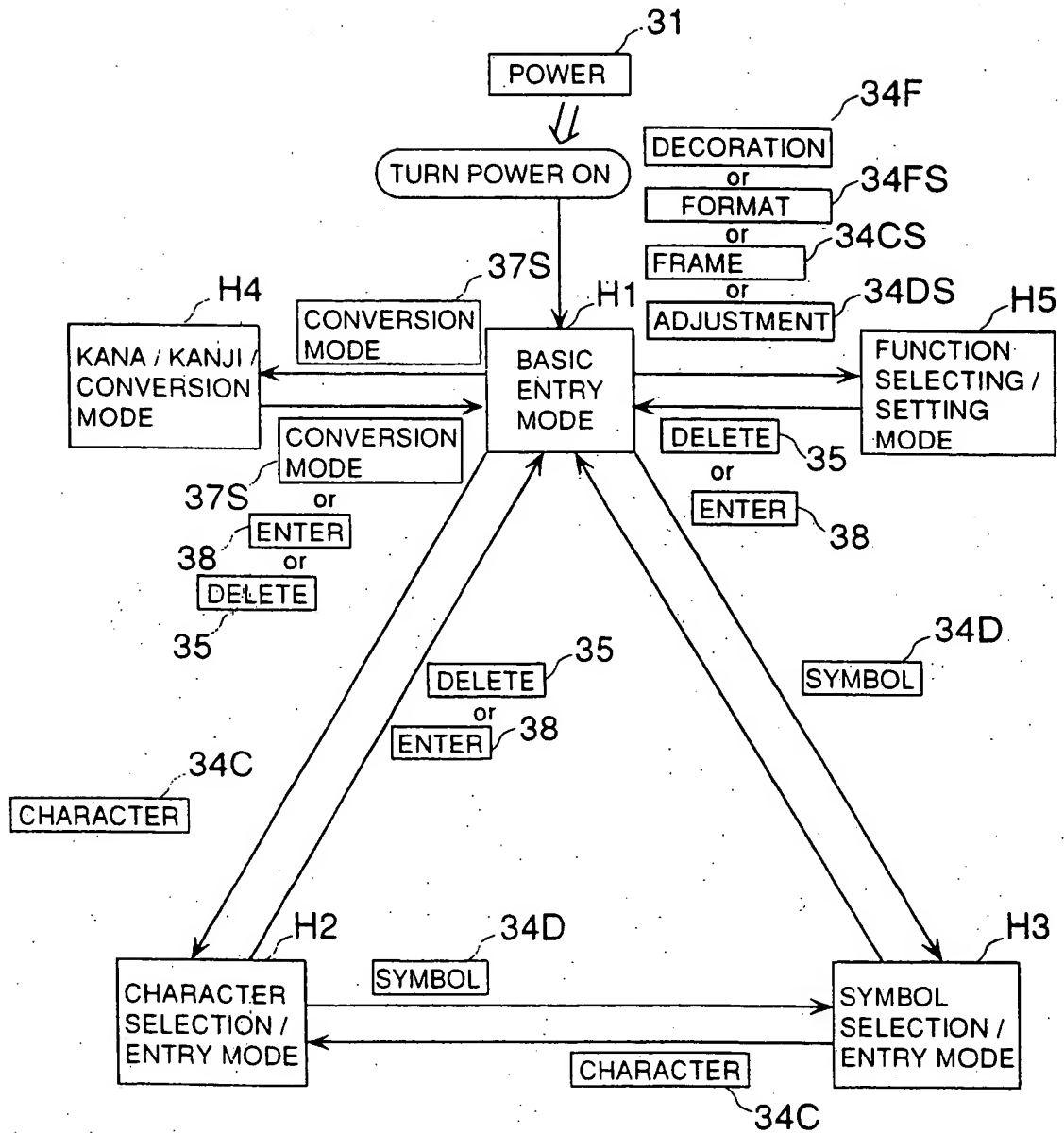
FIG. 18

(INTERRUPT INPUT BY READ KEY)



19/76

FIG. 19



20/76

FIG. 20A

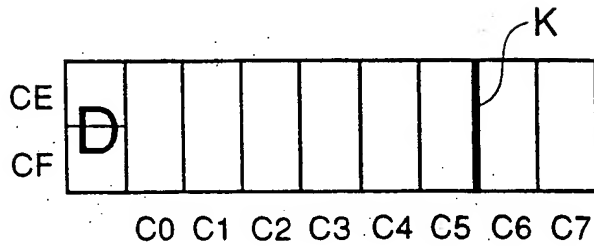


FIG. 20B

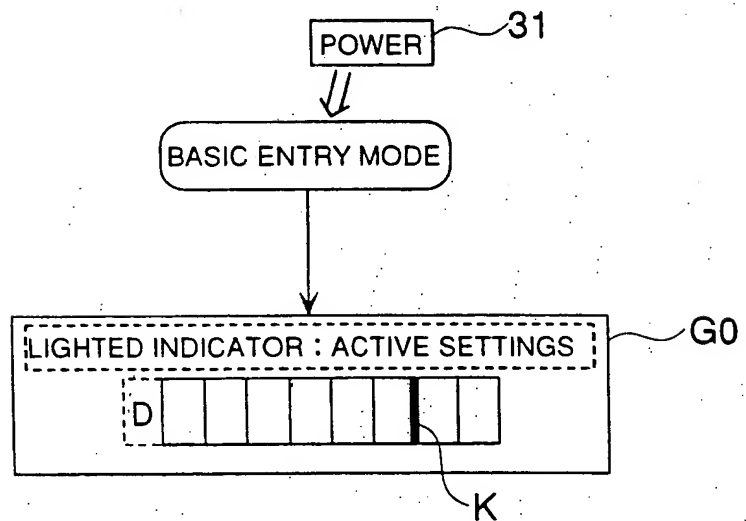
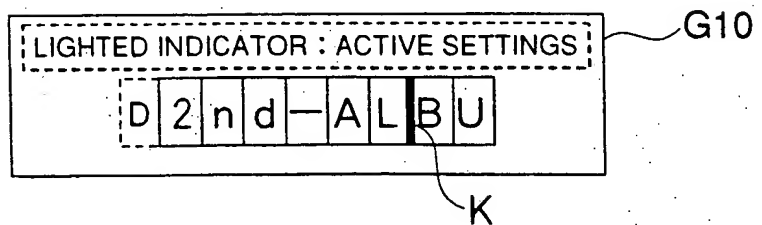
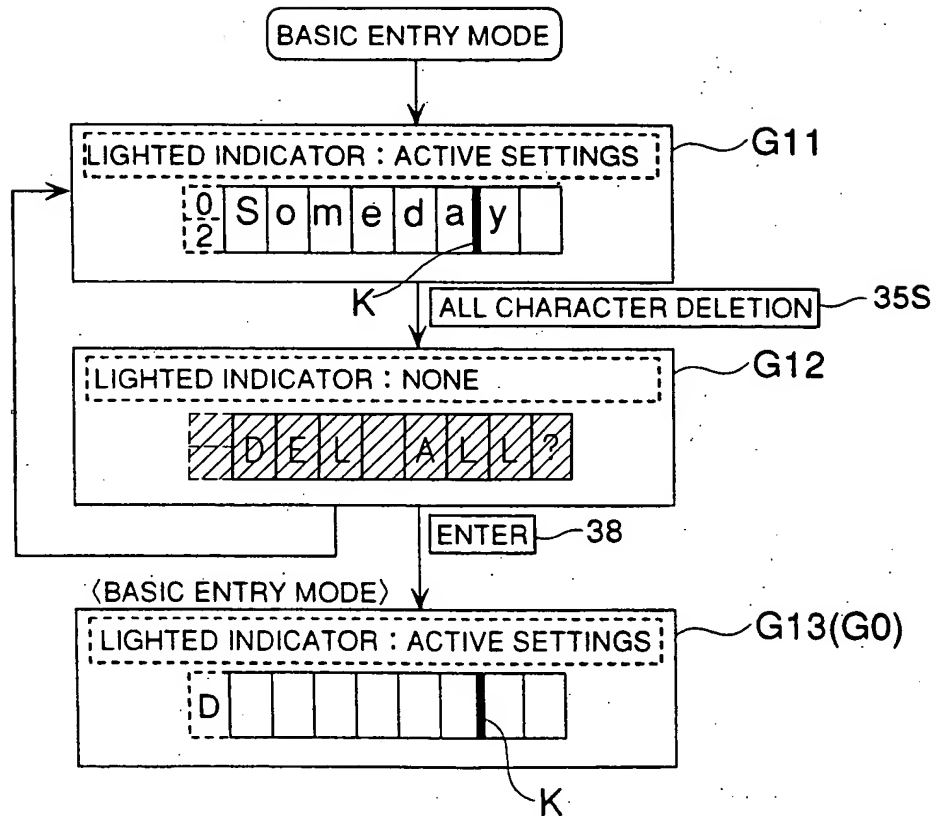


FIG. 20C



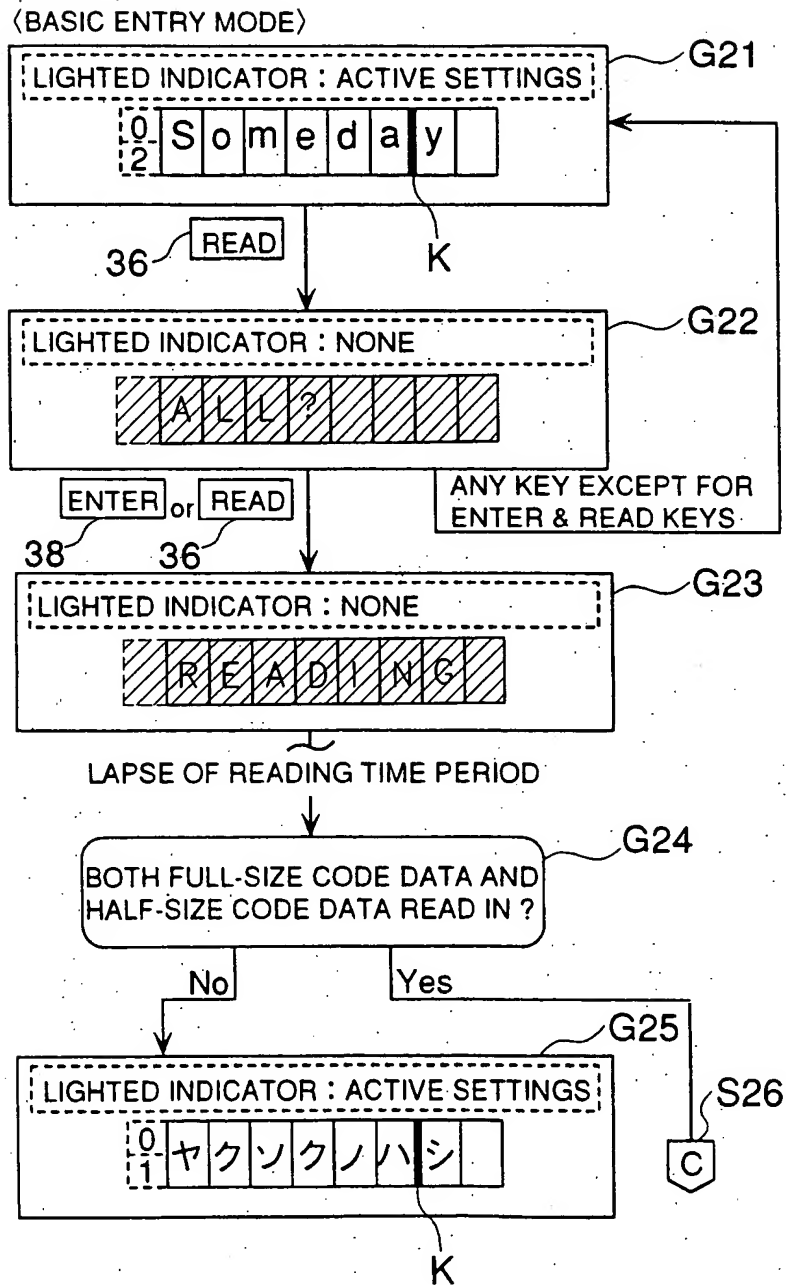
21/76

FIG. 21



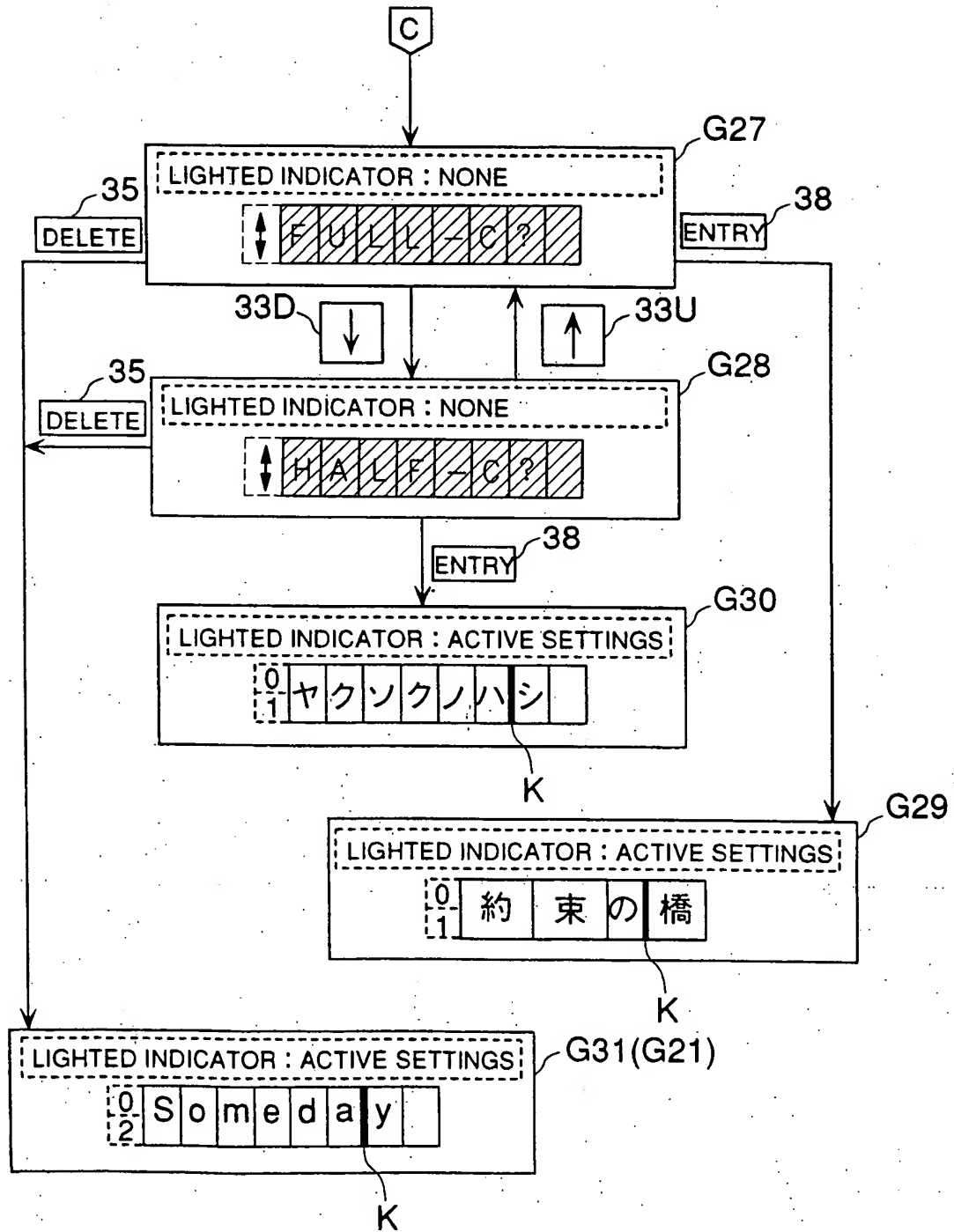
22/76

FIG. 22



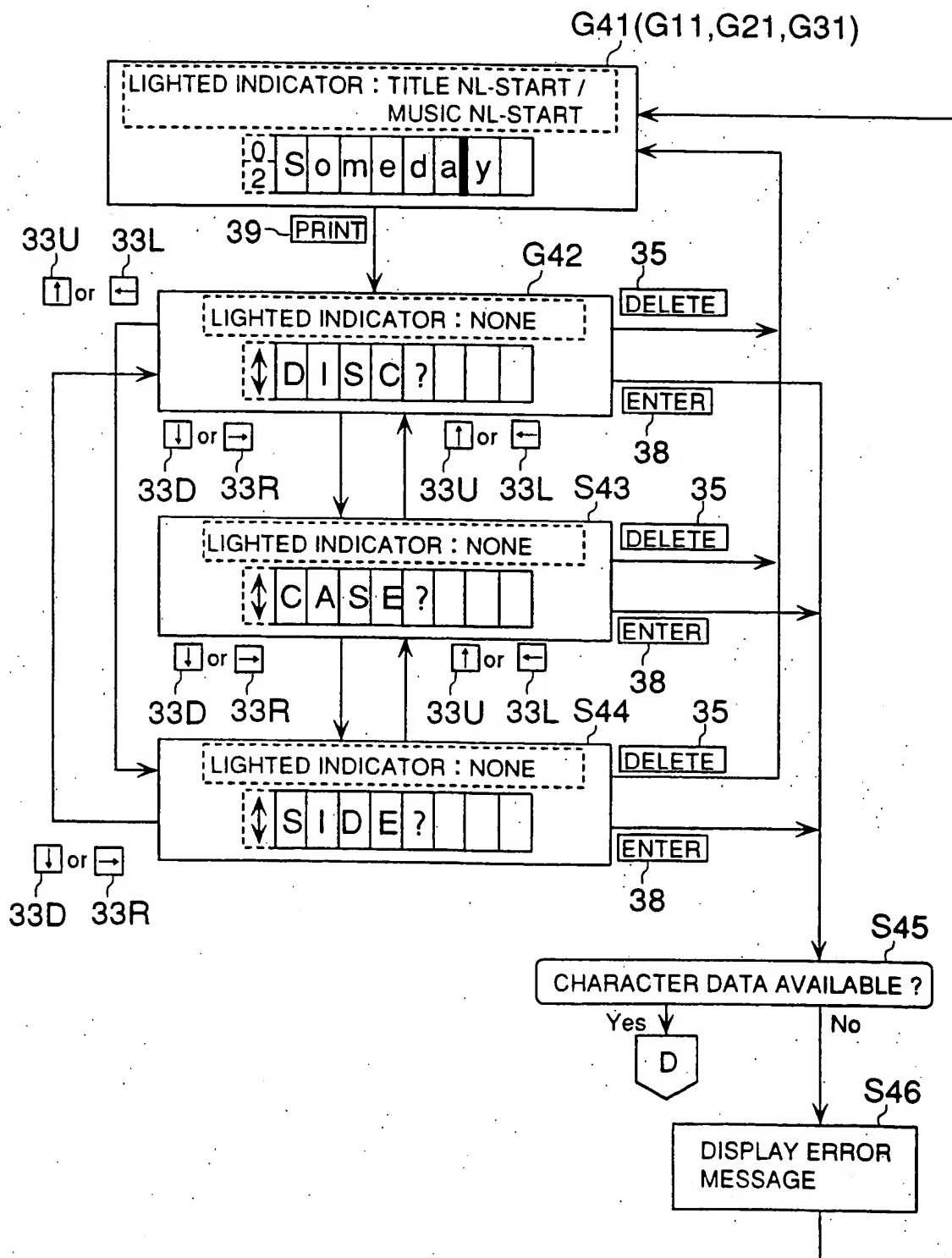
23/76

FIG. 23



24/76

FIG. 24



25/76

FIG. 25

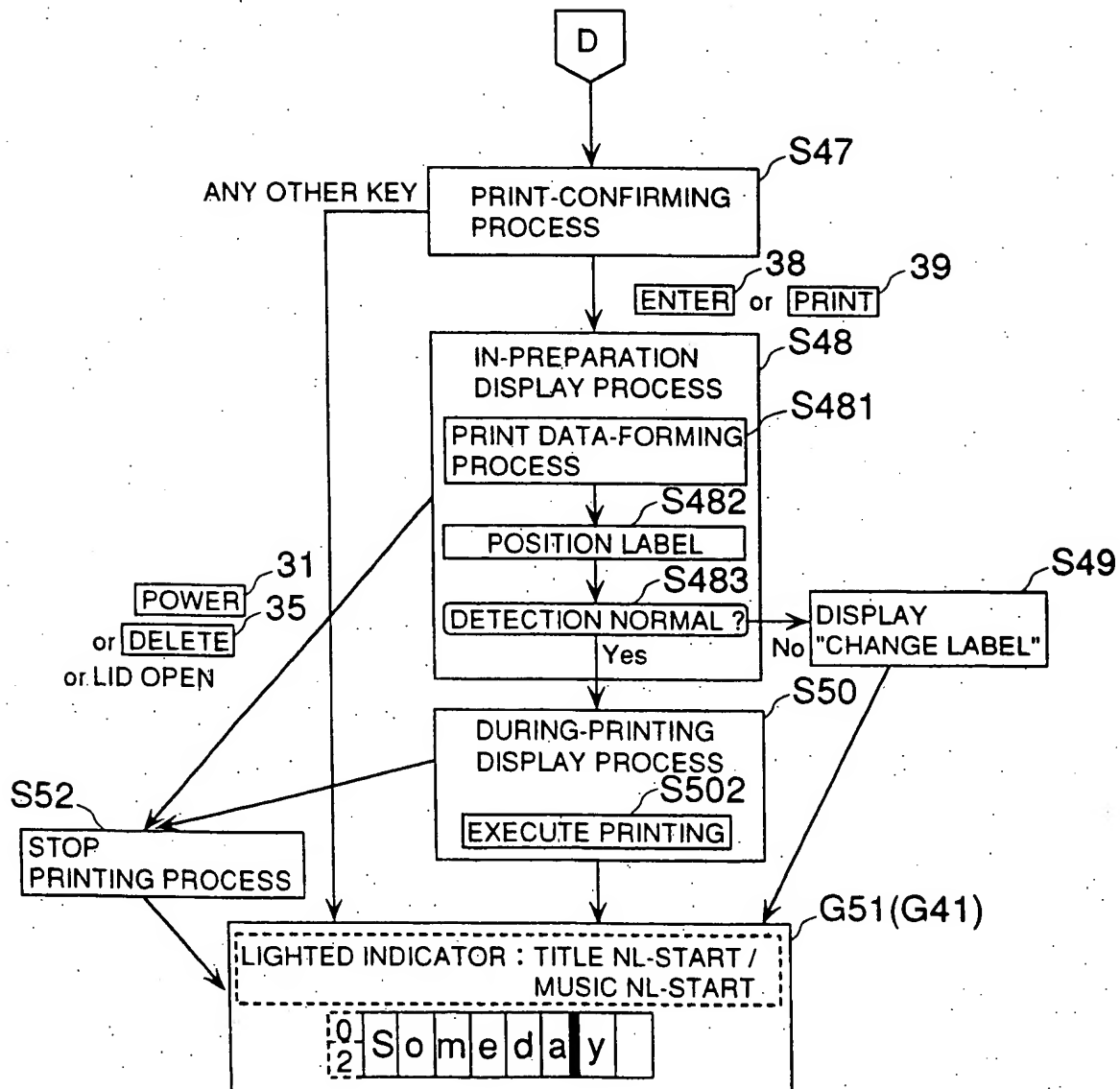


FIG. 26

The flowchart illustrates the printing process, starting with the PRINT-CONFIRMING PROCESS (S47) where the LIGHTED INDICATOR is NONE and the display shows 'PRINT?'. Pressing ENTER or PRINT (39) leads to the IN-PREPARATION DISPLAY PROCESS (S48). In S48, the LIGHTED INDICATOR is NONE and the display shows 'IN PREP'. Pressing DELETE (35) leads to the ESCAPE FROM OVERALL PRINTING PROCESS (BASIC ENTRY MODE). Pressing any other key leads to the PRINT DATA-FORMING PROCESS (S481). In S481, a decision is made: DISK LABEL OR CASE LABEL SELECTED? (S4811). If Yes, it goes to S4812; if No, it goes to S4813. In S4812, a decision is made: MAIN LABEL CARTRIDGE EXISTS? (S4812). If Yes, it goes to S4813; if No, it goes to S49 (DISPLAY 'CHANGE LABEL'). In S4813, the PRINT IMAGE-FORMING PROCESS (S482) is executed. This leads to the LABEL-POSITIONING PROCESS (S4821), which includes VERTICAL PRINTING POSITION ADJUSTMENT (S4821) and SIDE LABEL PRESENCE/ABSENCE DETECTION & HORIZONTAL PRINTING POSITION ADJUSTMENT (S4822). A decision is made: DETECTION NORMAL? (S483). If No, it goes to S49. If Yes, it goes to the DURING-PRINTING DISPLAY PROCESS (S50). In S50, the following steps are executed: DISPLAY 'DURING PRINTING' (S501), EXECUTE PRINTING (S502), POST PRINTING TAPE FEED (S503), and a decision: CASE LABEL DESIGNATED & PRINTING FIRST LABEL COMPLETED & SECOND LABEL DATA BEING AVAILABLE? (S504). If Yes, it goes to S49. If No, it goes to BASIC ENTRY MODE.

```
graph TD
    S47[PRINT-CONFIRMING PROCESS  
LIGHTED INDICATOR : NONE  
PRINT?] -- 39 ENTER or PRINT --> S48
    S48[IN-PREPARATION DISPLAY PROCESS  
LIGHTED INDICATOR : NONE  
IN PREP] -- 35 DELETE --> S49[ESCAPE FROM OVERALL PRINTING PROCESS  
(BASIC ENTRY MODE)]
    S48 --> S481
    S481[PRINT DATA-FORMING PROCESS]
    S4811{DISK LABEL OR CASE LABEL SELECTED?}
    S4811 -- Yes --> S4812
    S4811 -- No --> S4813
    S4812{MAIN LABEL CARTRIDGE EXISTS?}
    S4812 -- Yes --> S4813
    S4812 -- No --> S49
    S4813[PRINT IMAGE-FORMING PROCESS]
    S482[LABEL-POSITIONING PROCESS]
    S4821[VERTICAL PRINTING POSITION ADJUSTMENT]
    S4822[SIDE LABEL PRESENCE/ABSENCE DETECTION  
& HORIZONTAL PRINTING POSITION ADJUSTMENT]
    S4821 --> S4822
    S4822 --> S483
    S483{DETECTION NORMAL?}
    S483 -- No --> S49
    S483 -- Yes --> S50
    S50[DURING-PRINTING DISPLAY PROCESS]
    S501[DISPLAY "DURING PRINTING"]
    S502[EXECUTE PRINTING]
    S503[POST PRINTING TAPE FEED]
    S504{CASE LABEL DESIGNATED  
& PRINTING FIRST LABEL COMPLETED  
& SECOND LABEL DATA BEING AVAILABLE?}
    S501 --> S502
    S502 --> S503
    S503 --> S504
    S504 -- Yes --> S49
    S504 -- No --> S505[BASIC ENTRY MODE]
```

27/76

LINE NUMBER	MUSIC NUMBER (INFORMATION NUMBER)	MUSIC NUMBER (INFORMATION NUMBER)
	TITLE	TITLE
1	☆TITLE	☆TITLE
2	1. A1B1C1D1E1F	1. A1B1C1D1E1F
3	1G1	1G1
4	2. A2B2C2	2. A2B2C2
5	3. A3B3C3D3E3F	3. A3B3C3D3E3F
6	3G	3G
7	4. A4B4C4D4E4F	4. A4B4C4D4E4F
8	5. A5B5C5D5E5F	5. A5B5C5D5E5F
9	5G5H5I5J5K5	5G5H5I5J5K5
10	L5M5N5	L5M5N5
11	6. A6B6C6D6	6. A6B6C6D6
12	7. A7B7C7E	7. A7B7C7E
13	8. A8B8C8D8E8F	8. A8B8C8D8E8F
14	8G8H8I8J8K8	8G8H8I8J8K8
15	L8	L8
16	9. A9B9	9. A9B9
17	10. A10B10C10D1	10. A10B10C10D1
18	0E10F1	0E10F1
19	11. A11B11C11D1	11. A11B11C11D1
20	12. A12B12C12D1	~A TOTAL OF 45 TITLES~
21	2E12F12	
22	13. A13B13C13D1	
23	3E13	
24	14. A14B14C14	

FIG. 27A

FIG. 27B

28/76

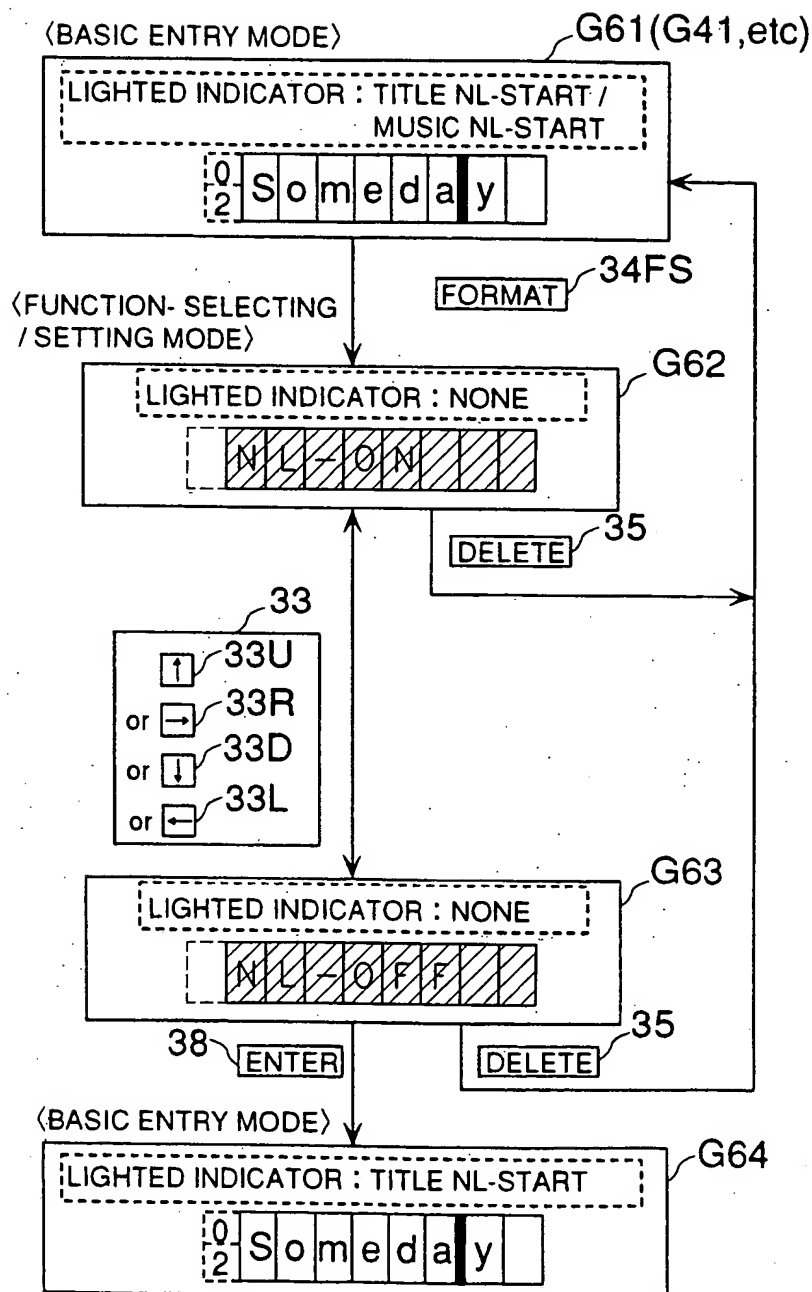
LINE NUMBER	MUSIC NUMBER (INFORMATION NUMBER)	MUSIC NUMBER (INFORMATION NUMBER)
	TITLE	TITLE
1	☆TITLE	☆TITLE
2	1. A1B1C1D1E1...	1. A1B1C1D1E1...
3	2. A2B2C2	2. A2B2C2
4	3. A3B3C3D3E3...	3. A3B3C3D3E3...
5	4. A4B4C4D4E4F	4. A4B4C4D4E4F
6	5. A5B5C5D5E5...	5. A5B5C5D5E5...
7	6. A6B6C6D6	6. A6B6C6D6
8	7. A7B7C7E	7. A7B7C7E
9	8. A8B8C8D8E8...	8. A8B8C8D8E8...
10	9. A9B9	9. A9B9
11	10. A10B10C10D...	10. A10B10C10D...
12	11. A11B11C11D1	11. A11B11C11D1
13	12. A12B12C12D...	12. A12B12C12D...
14	13. A13B13C13D...	13. A13B13C13D...
15	14. A14B14C14	14. A14B14C14
16	15. A15B15	15. A15B15
17	16. A16B16C16D...	10. A16B16C16D...
18	17. A17B	17. A17B
19	18. A18B18C18D...	18. A18B18C18D...
20	~A TOTAL OF 45 TITLES~	19. A19B19C19D...
21		20. A20B2
22		21. A21B21C21
39		38. A38B38C3
40		~A TOTAL OF 45 TITLES~

FIG. 28A

FIG. 28B




29/76

FIG. 29



30/76

FIG. 30

CHARACTER	TITLE	MEANING
	LINE OVERFLOW MARK 1 ("MARK L1")	WHEN PRINTING IS CARRIED OUT IN THE STATE OF DISC LABEL (SINGLE SHEET) BEING DESIGNATED, LINES FOLLOWING A LINE MARKED WITH THIS MARK ARE NOT PRINTED ONLY TO PRINT A MESSAGE "A TOTAL OF XX TITLES " INSTEAD.
	LINE OVERFLOW MARK 2 ("MARK L2")	WHEN PRINTING IS CARRIED OUT IN THE STATE OF CASE LABEL (DOUBLE SHEET) BEING DESIGNATED, LINES FOLLOWING A LINE MARKED WITH THIS MARK ARE NOT PRINTED ONLY TO PRINT A MESSAGE "A TOTAL OF XX TITLES " INSTEAD.
	CHARACTER OVERFLOW MARK ("MARK C")	WHEN PRINTING IS CARRIED OUT IN THE STATE OF NL-ON BEING DESIGNATED, A NEW LINE STARTS AT A CHARACTER LOCATED IMMEDIATELY AFTER THIS MARK, WHEREAS WHEN PRINTING IS CARRIED OUT IN THE STATE OF NL-OFF BEING DESIGNATED, ONLY ONE MARK C EXISTS IN LINE OF TEXT DATA. WHEN THE TEXT DATA IS PRINTED, A LETTER IMMEDIATELY AFTER MARK C REPLACED BY A SYMBOL "..." TO SET THE SAME AS LAST LETTER TO BE PRINTED FOR THE LINE.

A	1	0	B	1	0	C	1	0	D	1	C	0	E	1	0	F	1			
A	1	1	B	1	1	C	1	1	D	1										
L	1	A	1	2	B	1	2	C	1	2	D	1	C	2	E	1	2	F	1	2
	A	1	3	B	1	3	C	1	3	D	1	C	3	E	1	3				

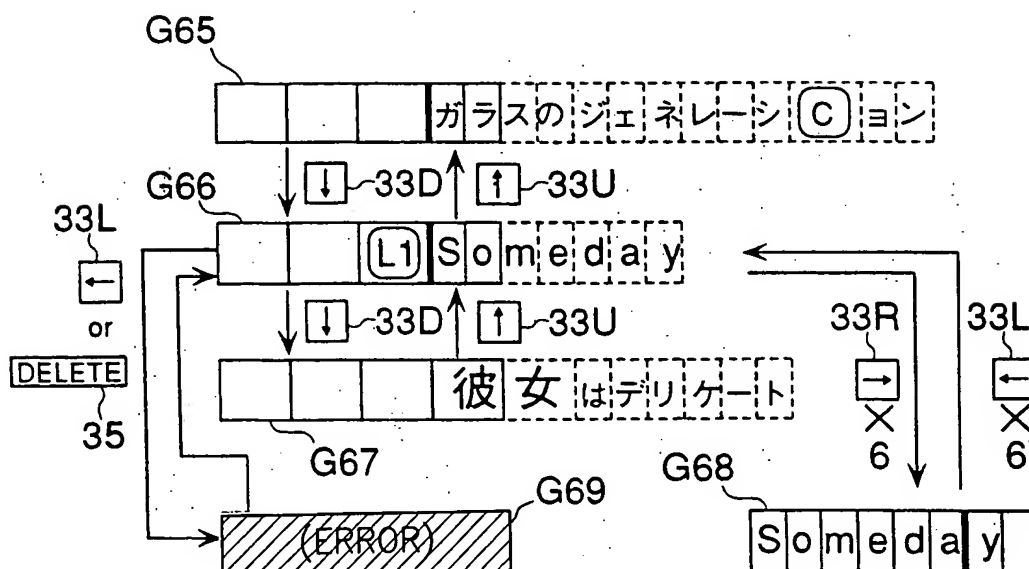
A	1	0	B	1	0	C	1	0	D	C	1	0	E	1	0	F	1	
A	1	1	B	1	1	C	1	1	D	1								
A	1	2	B	1	2	C	1	2	D	C	1	2	E	1	2	F	1	2
A	1	3	B	1	3	C	1	3	D	C	1	3	E	1	3			

[illegible]

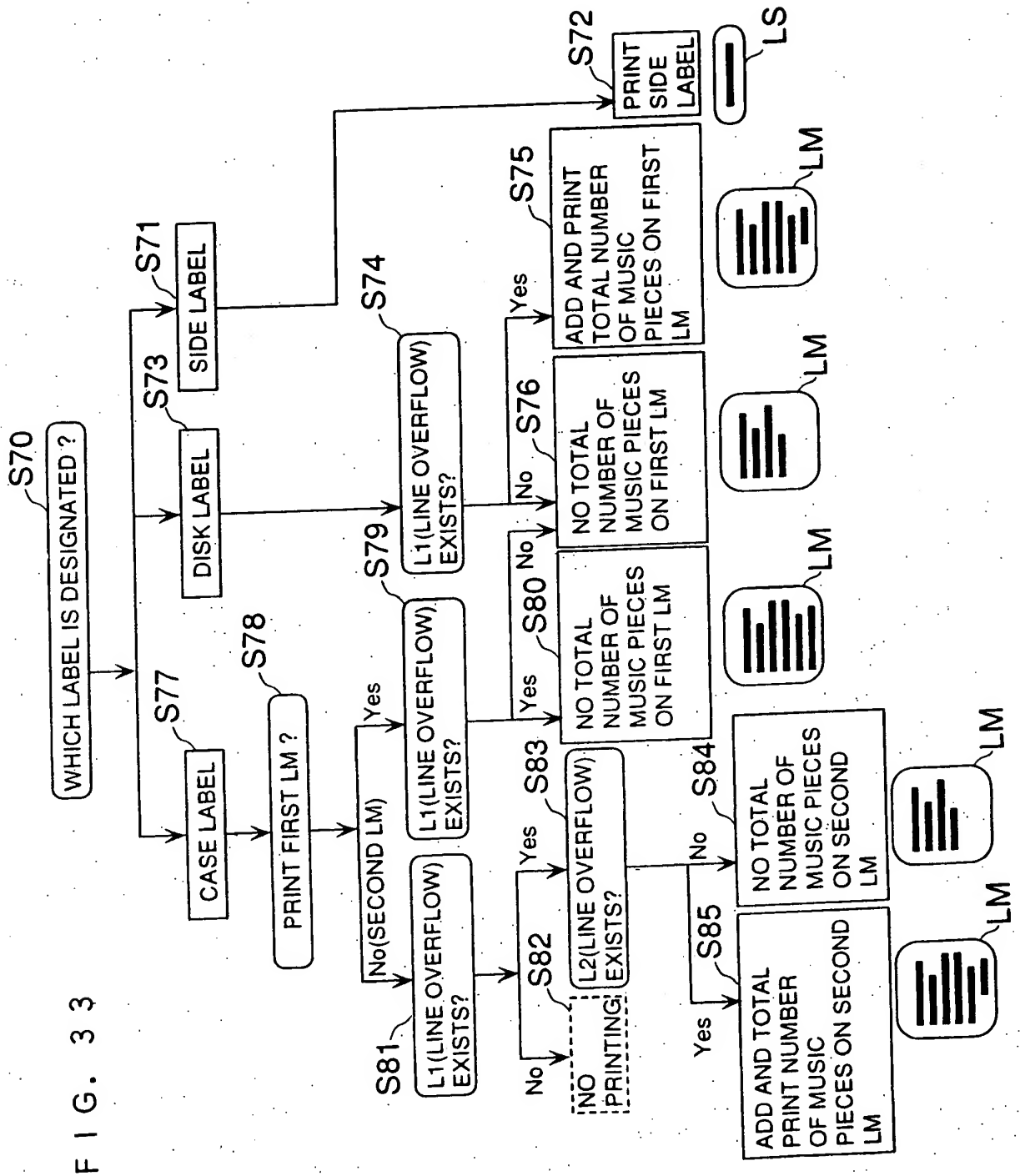
	A	3	8	B	3	8	C	3	
L 2	A	3	9	B	3	9			
	A	4	0	B	4	0	C	4	0 D C 4 0 E 4
	A	4	1	B	4				

	ガ	ラ	ス	の	ジ	ェ	ネ	レー	シ	(C)	ヨ	ン
(L1)	S	o	m	e	d	a	y					
	彼	女	は	デ	リ	ケ	ー	ト				

F I G. 3 2 B



33/76



34/76

FIG. 34A

- 19. ガラスのジェネレーシ...
- 20. someday
- 21. 彼女はデリケート

FIG. 34B

- 19. ガラスのジェネレーシ...
- 20. someday
- 21. 彼女はデリケート

35/76

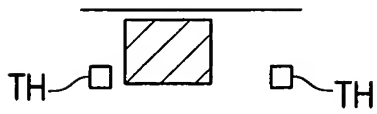


FIG. 35 A

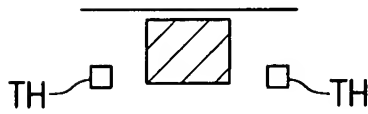


FIG. 35 B

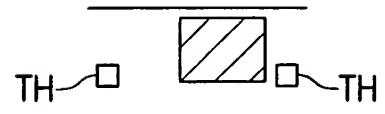


FIG. 35 C

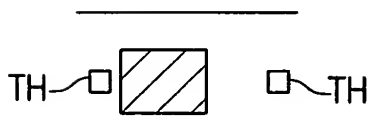


FIG. 35 D

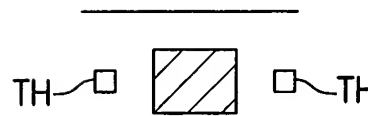


FIG. 35 E

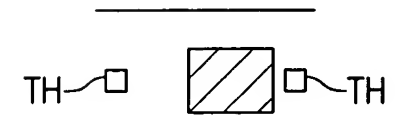


FIG. 35 F

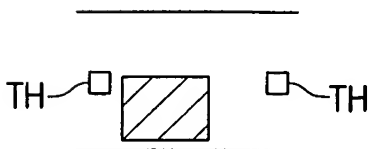


FIG. 35 G

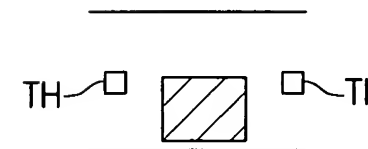


FIG. 35 H

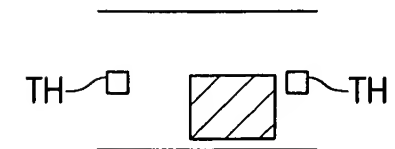


FIG. 35 I

36/76

FIG. 36A

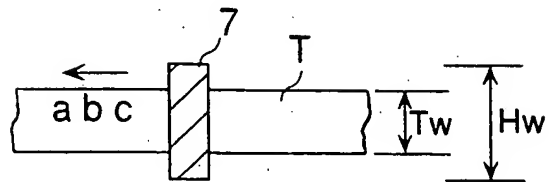


FIG. 36B

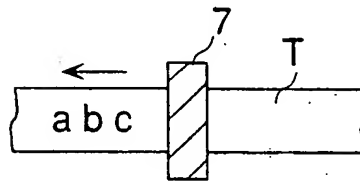
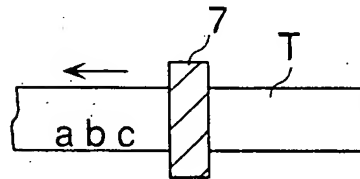


FIG. 36C



37/76

⟨PRINTING POSITION
: REFERENCE POSITION⟩

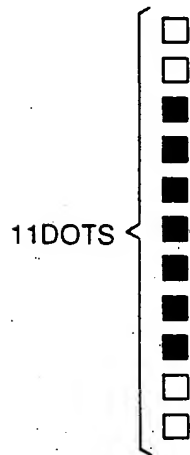


FIG. 37A

⟨PRINTING POSITION
: SHIFTED UPWARD
BY ONE DOT⟩



FIG. 37B

⟨PRINTING POSITION
: SHIFTED DOWNWARD
BY ONE DOT⟩



FIG. 37C

38/76

↓ 1	00	2A	FF	55	00

↑ 3	02	AF	FD	50	00

↑ 2	01	57	FE	A8	00

↑ 1	00	AB	FF	54	00

NORMAL	00	55	FF	AA	00

FIG. 38A FIG. 38B FIG. 38C FIG. 38D FIG. 38E

39/76

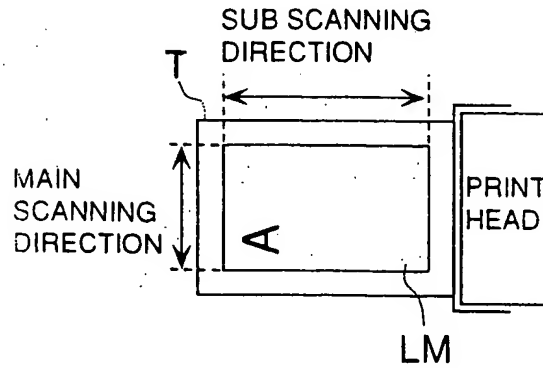


FIG. 39 A

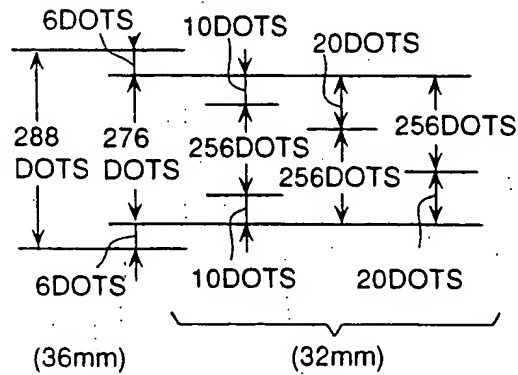


FIG. 39 B

40/76

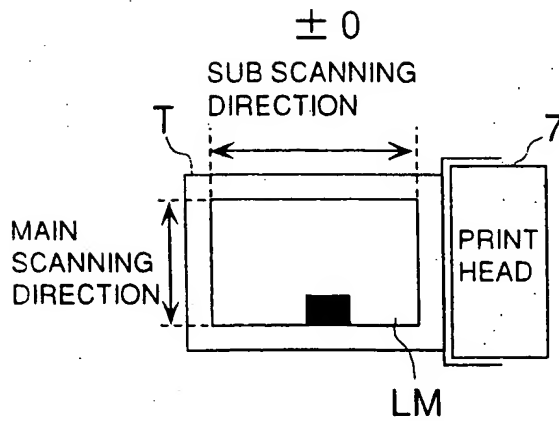


FIG. 40A

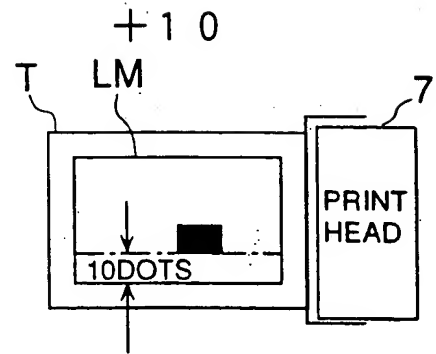


FIG. 40B

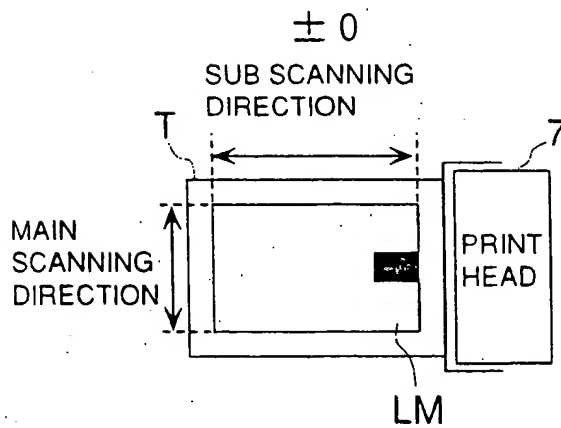


FIG. 41A

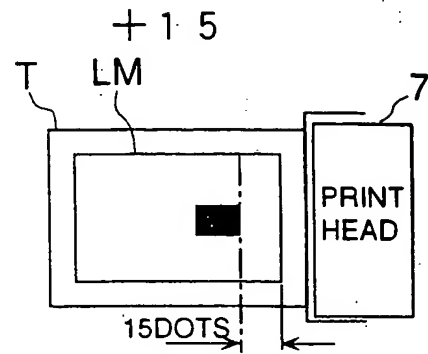


FIG. 41B

41/76

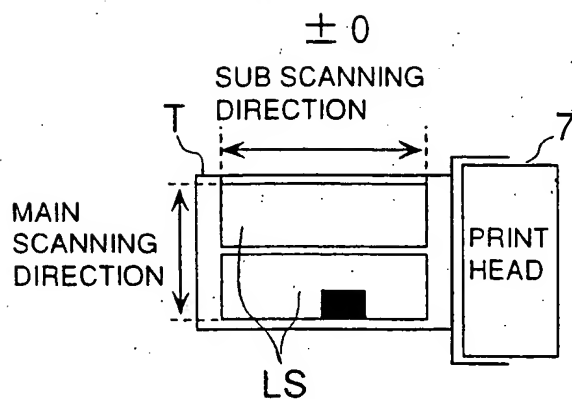


FIG. 42 A

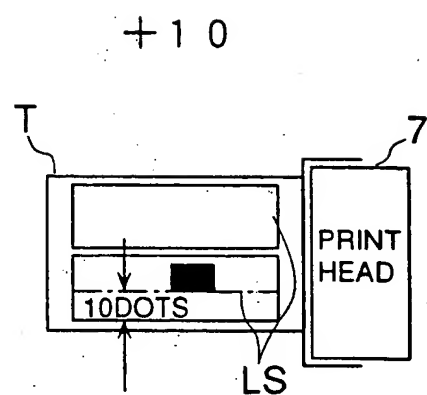


FIG. 42 B

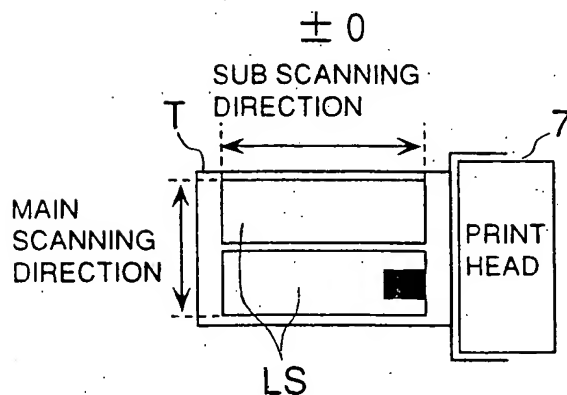


FIG. 43 A

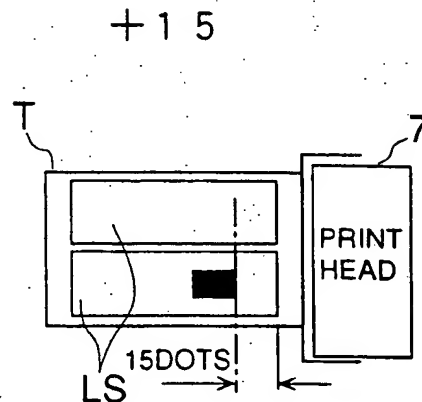
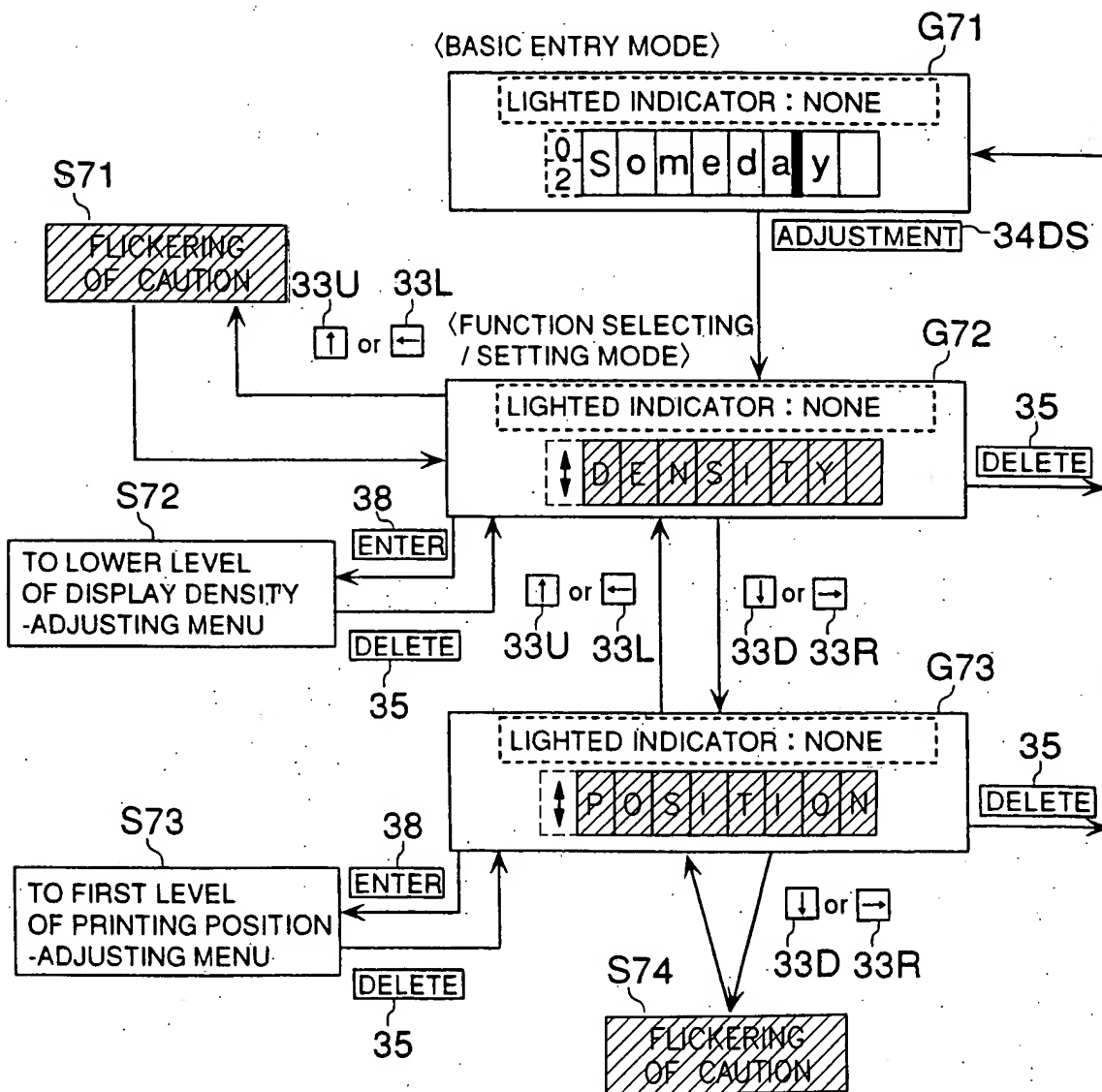


FIG. 43 B

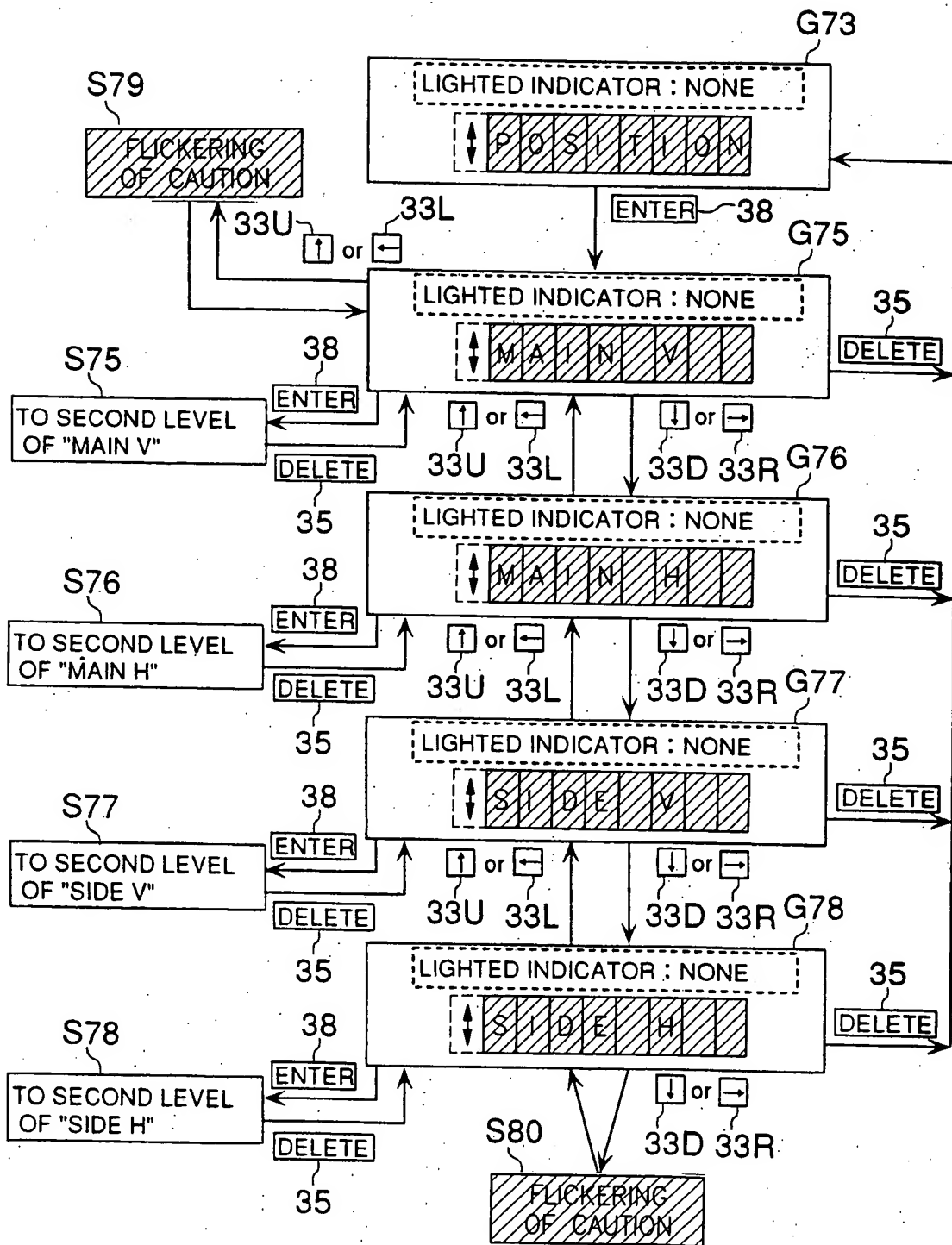
42/76

FIG. 44



43/76

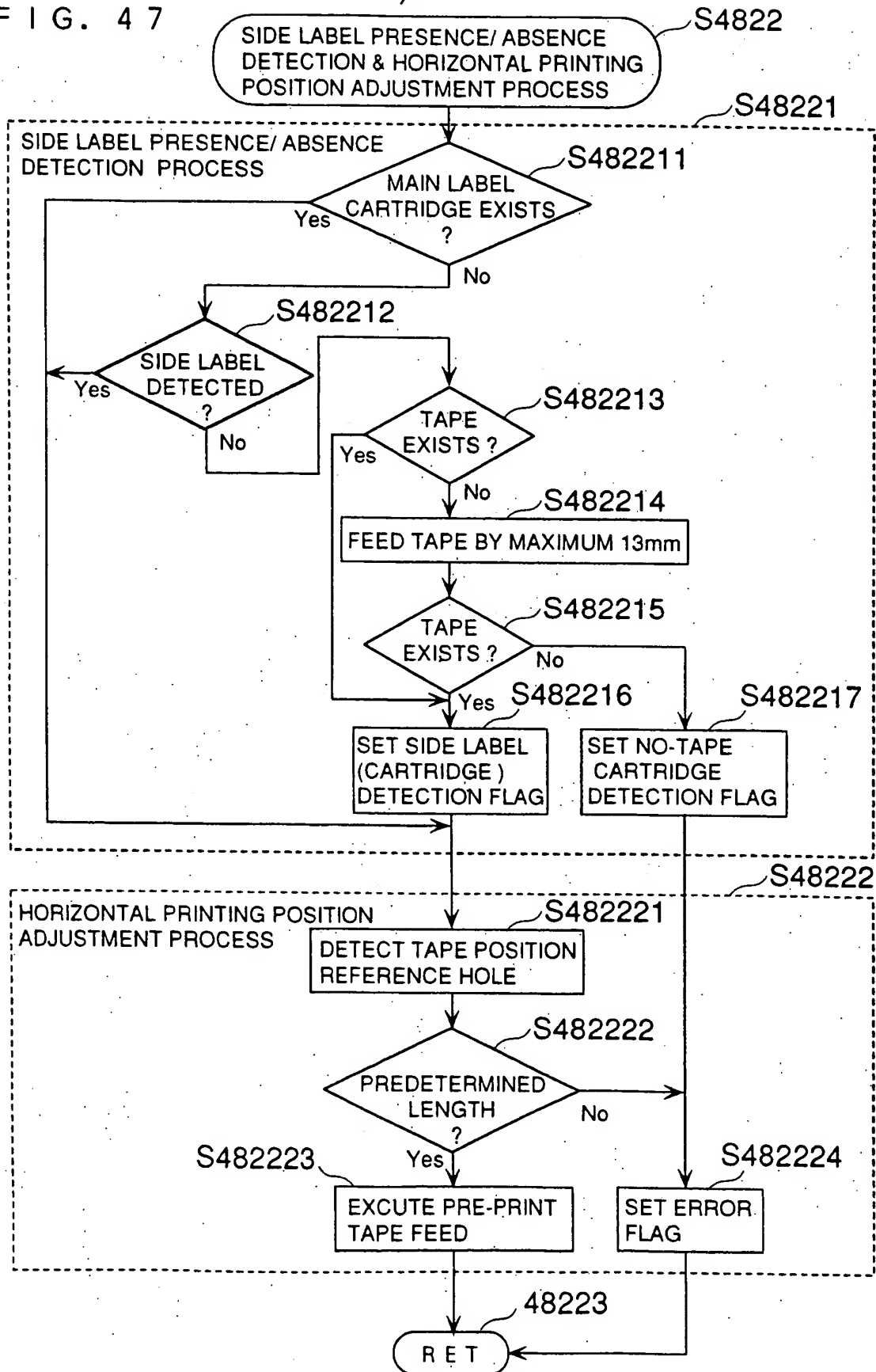
FIG. 45



The flowchart illustrates the sequence of operations for inputting the word "Someday". It begins with a state where the "LIGHTED INDICATOR" is "NONE" and the display shows "SIDE V". Pressing the "ENTER" key (38) initiates the process. The sequence proceeds through several states (G77, G82, G83, G84, G85, G86) where characters are input one by one. Each state shows the current display and the "LIGHTED INDICATOR" status. The input sequence is: 'S' (G77), 'I' (G82), 'D' (G83), 'E' (G84), ' ' (G85), and 'y' (G86). Each character input is followed by a "DELETE" operation (35) and a "FLICKERING OF CAUTION" (S81, G81, S85). The final state (G86) shows the complete word "Someday" on the display. The flowchart also includes various control signals (33U, 33L, 33R, 33D) and a "FLICKERING OF CAUTION" signal (S85).

45/76

FIG. 47



46/76

FIG. 48A

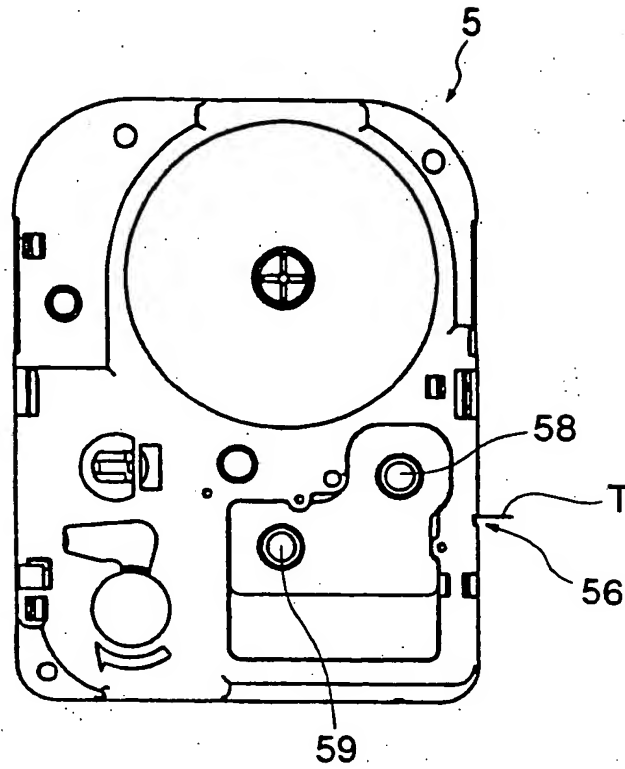
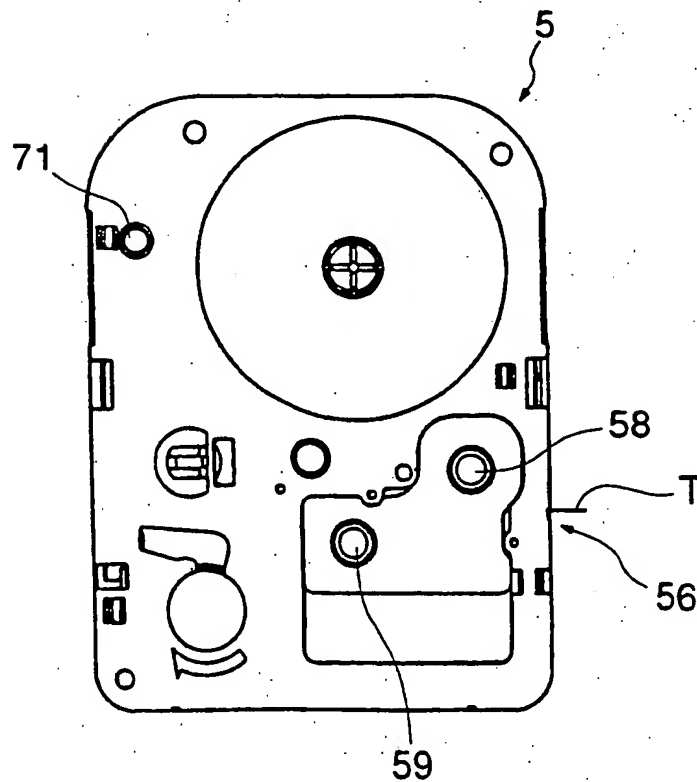


FIG. 48B



47/76

FIG. 49A

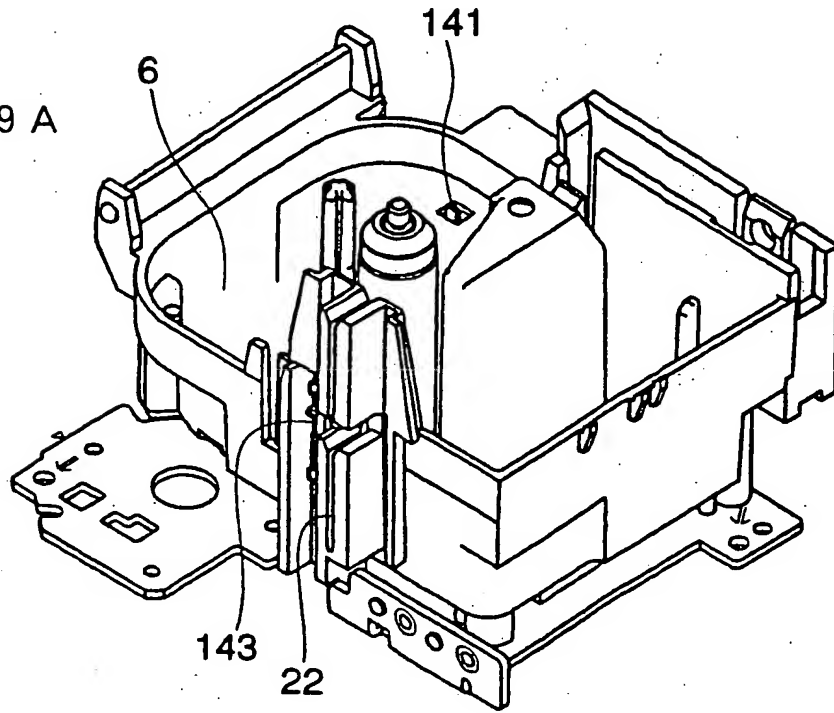
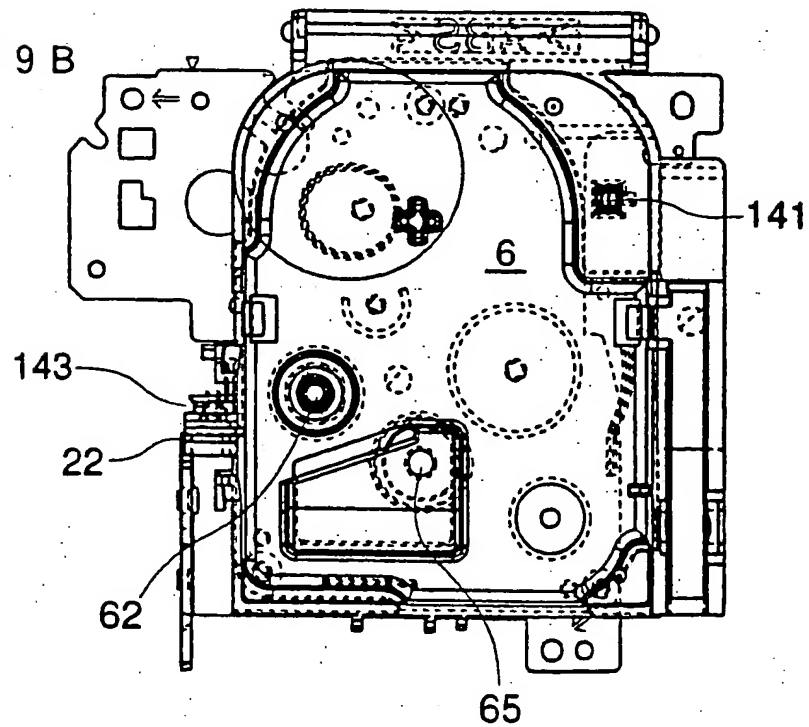


FIG. 49B



48/76

DETAILS	
BITS	
b31	CARTRIDGE INFORMATION
b30	
b29	NEW LINE-STARTING INFORMATION
b28	(EFFECTIVE FOR MAIN LABEL ONLY)
b27	PRINT SHEET NUMBER INFORMATION
b26	(EFFECTIVE FOR MAIN LABEL ONLY)
b25	RESERVE
b24	
b23	FRAME INFORMATION
b22	
b21	
b20	
b19	
b18	
b17	
b16	(EFFECTIVE FOR MAIN LABEL ONLY)
b15	RESERVE
b14	
b13	
b12	TITLE LINE : CHARACTER DECORATION INFORMATION "TYPEFACE"
b11	TITLE LINE : CHARACTER DECORATION INFORMATION "EXTEND"
b10	TITLE LINE : CHARACTER DECORATION INFORMATION "SHORTEN"
b09	TITLE LINE : CHARACTER DECORATION INFORMATION "OUTLINE"
b08	TITLE LINE : CHARACTER DECORATION INFORMATION "ITALIC"
b07	RESERVE
b06	
b05	
b04	MUSIC TITLE LINE : CHARACTER DECORATION INFORMATION "TYPEFACE"
b04	MUSIC TITLE LINE : CHARACTER DECORATION INFORMATION "EXTEND"
b04	MUSIC TITLE LINE : CHARACTER DECORATION INFORMATION "SHORTEN"
b04	MUSIC TITLE LINE : CHARACTER DECORATION INFORMATION "OUTLINE"
b04	MUSIC TITLE LINE : CHARACTER DECORATION INFORMATION "ITALIC"

49/76

FIG. 51A

b31	b30	CARTRIDGE INFORMATION
0	0	NO CARTRIDGE
0	1	MAIN LABEL CARTRIDGE
1	0	SIDE LABEL CARTRIDGE
1	1	UNUSABLE CARTRIDGE

FIG. 51B

b29/b28	NEW LINE-STARTING SETTINGS
0	NL-OFF
1	NL-ON

FIG. 51C

b27	b26	PRINT SHEET NUMBER INFORMATION
0	—	PRINTING ON FIRST SHEET IS SET
1	0	PRINTING ON BOTH SHEETS IS SET; AND FIRST SHEET IS TO BE PRINTED NOW
1	1	PRINTING ON BOTH SHEETS IS SET, AND SECOND SHEET IS TO BE PRINTED NOW

50/76

FIG. 52

0	LINE HEAD DATA
1	CHARACTER
2	CHARACTER
3	LINE HEAD DATA
4	CHARACTER
N	EOD
N+1	NULL
1799	NULL

51/76

FIG. 53A

b15	b14	b13	b12	KINDS OF DATA
0	1	1	1	EDIT INFORMATION
OTHER THAN THE ABOVE				CHARACTER CODE

FIG. 53B

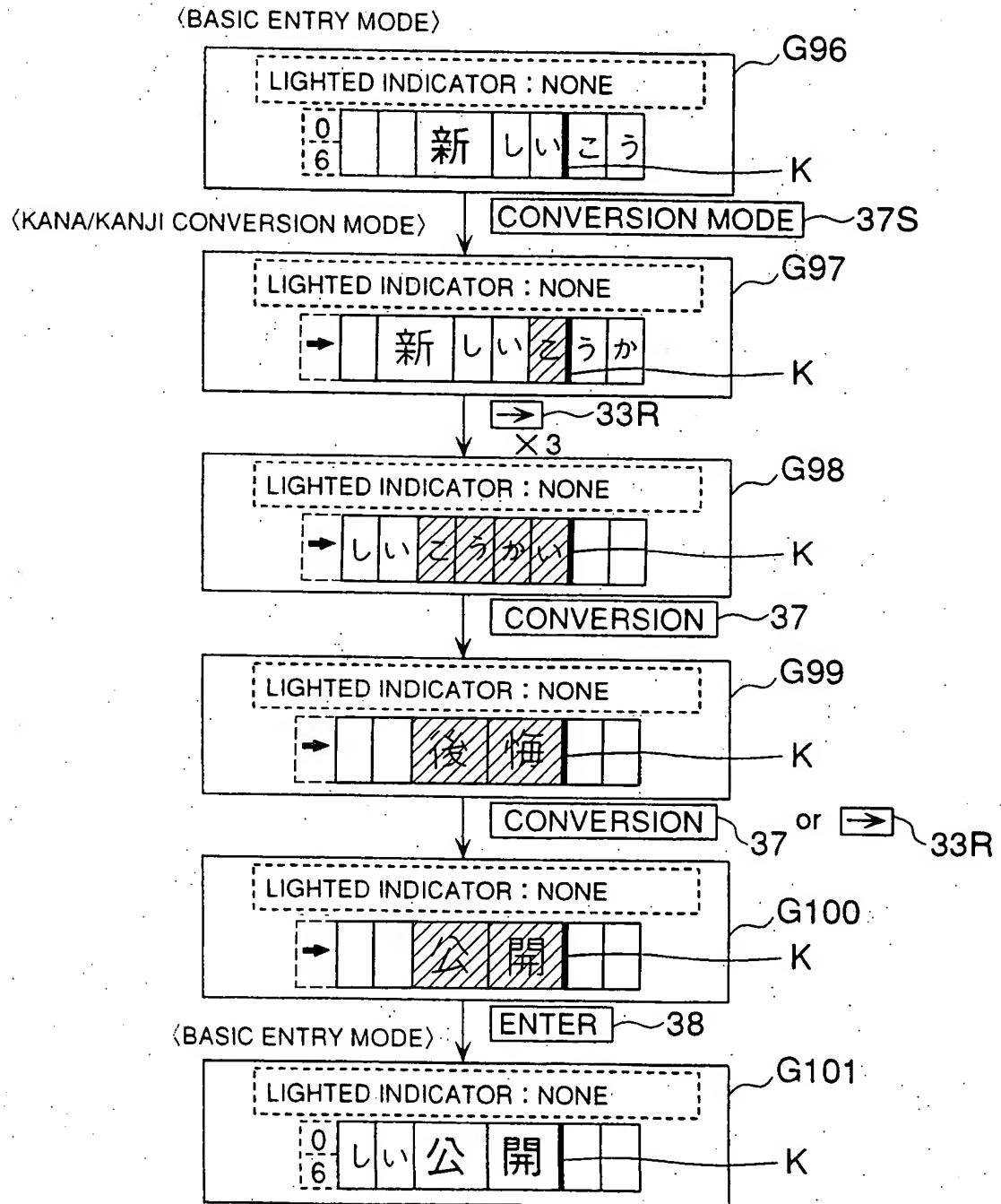
BIT	DETAILS
b15	0 INFORMATION OF TYPE OF DATA
b14	1 "EDIT INFORMATION"
b13	1
b12	1
b11	1 CLASSIFICATION OF EDIT INFORMATION
b10	0 "LINE HEAD DATA"
b09	0
b08	0
b07	— MUSIC NUMBER
b06	—
b05	—
b04	—
b03	—
b02	—
b01	—
b00	—

FIG. 53C

BIT	DETAILS
b15	0 INFORMATION OF TYPE OF DATA
b14	1 "EDIT INFORMATION"
b13	1
b12	1
b11	1 CLASSIFICATION OF EDIT INFORMATION
b10	1 "END MARK"
b09	1
b08	1
b07	1 FIXED VALUE
b06	1
b05	1
b04	1
b03	1 FIXED VALUE
b02	1
b01	1
b00	1

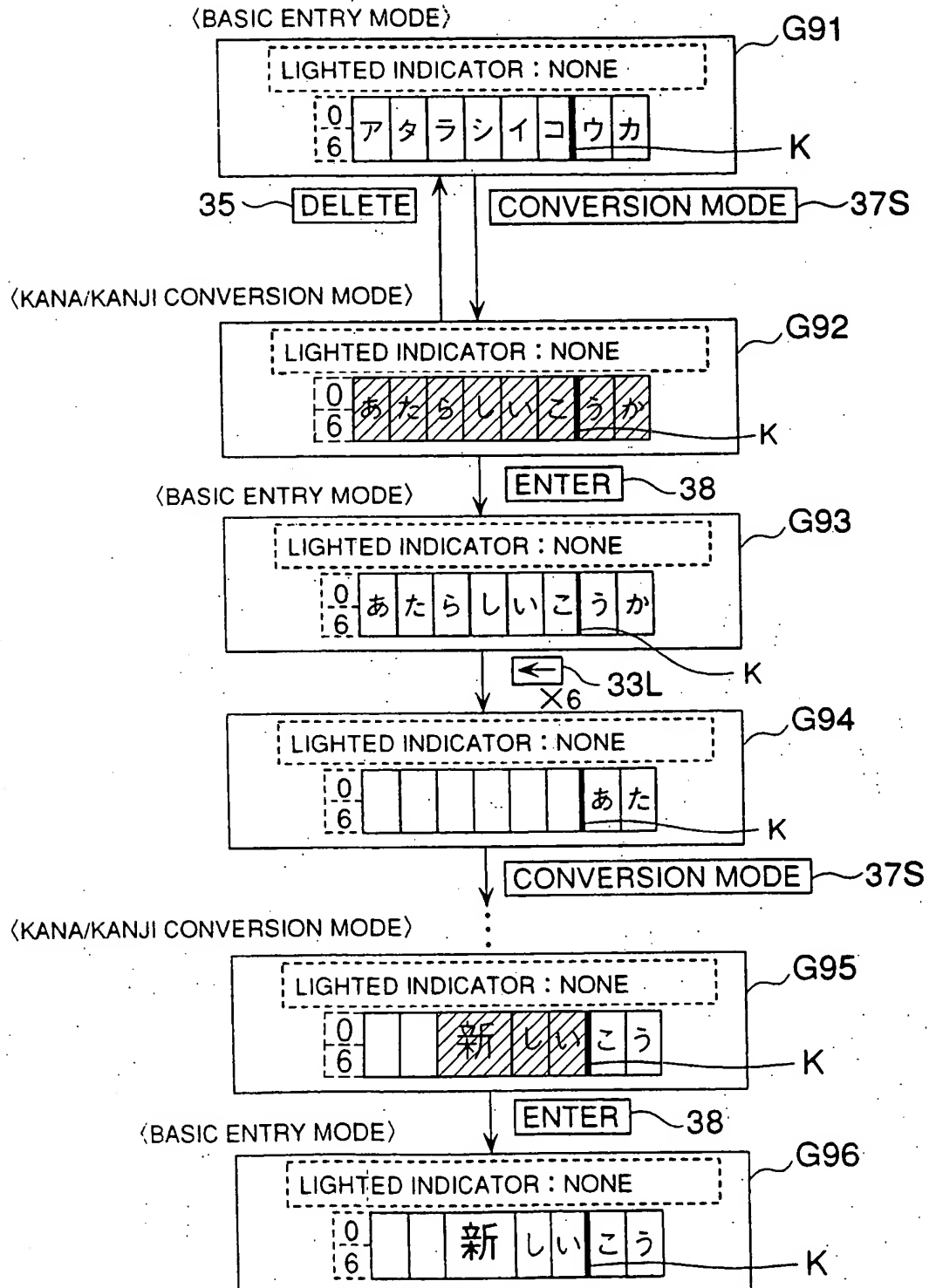
52/76

FIG. 54



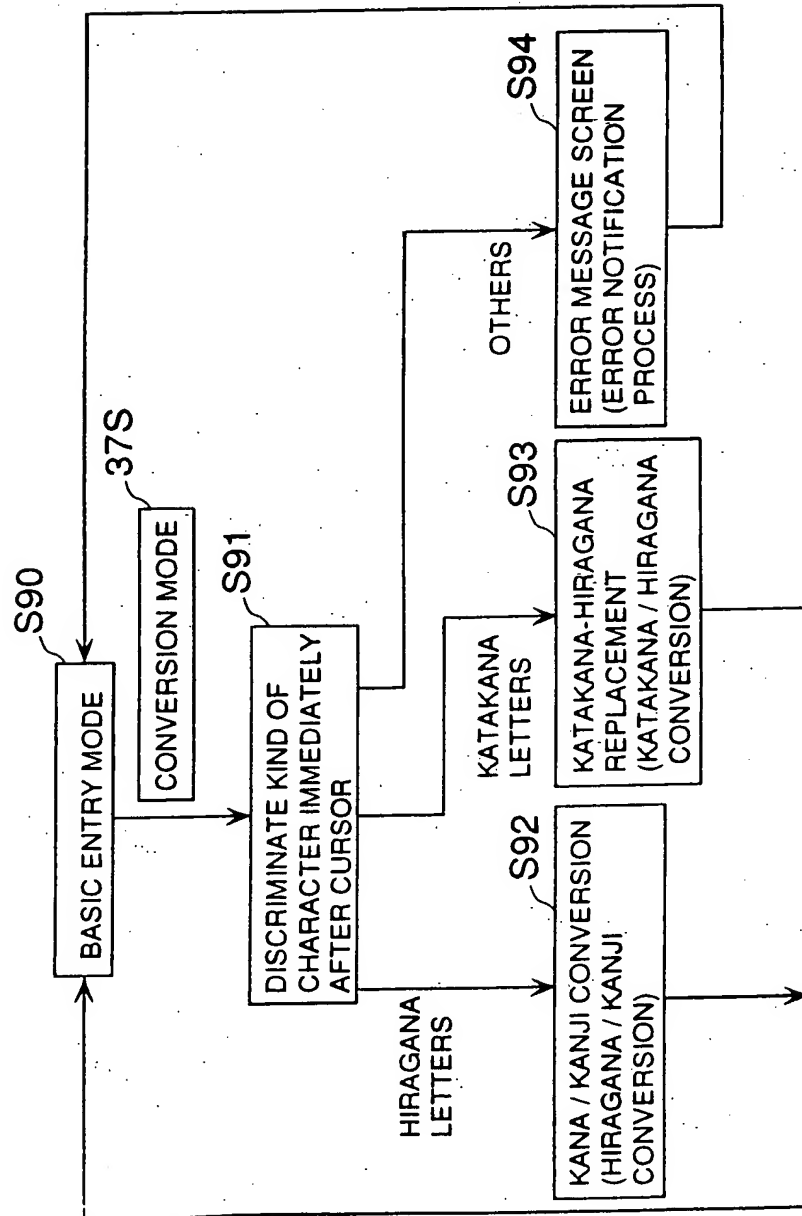
53/76

FIG. 55



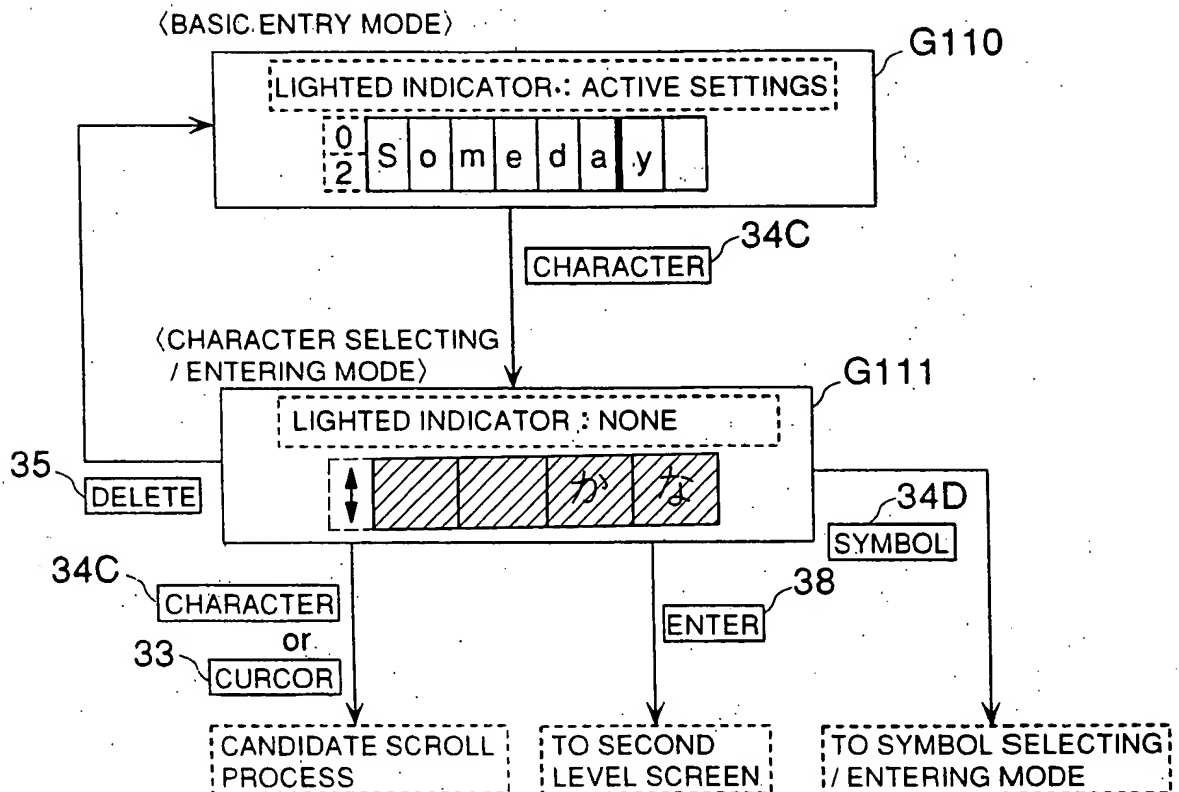
54/76

FIG. 56



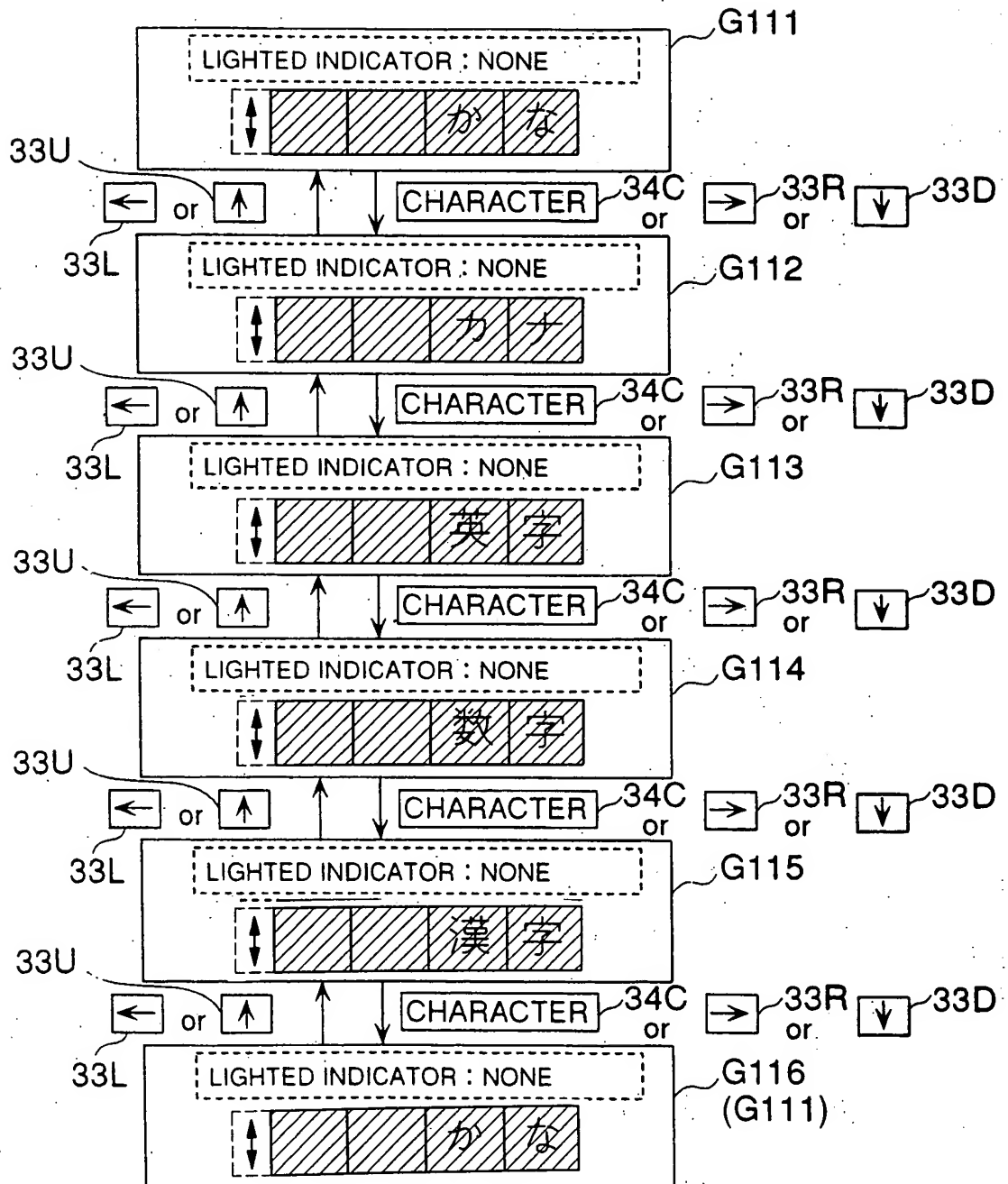
55/76

FIG. 57



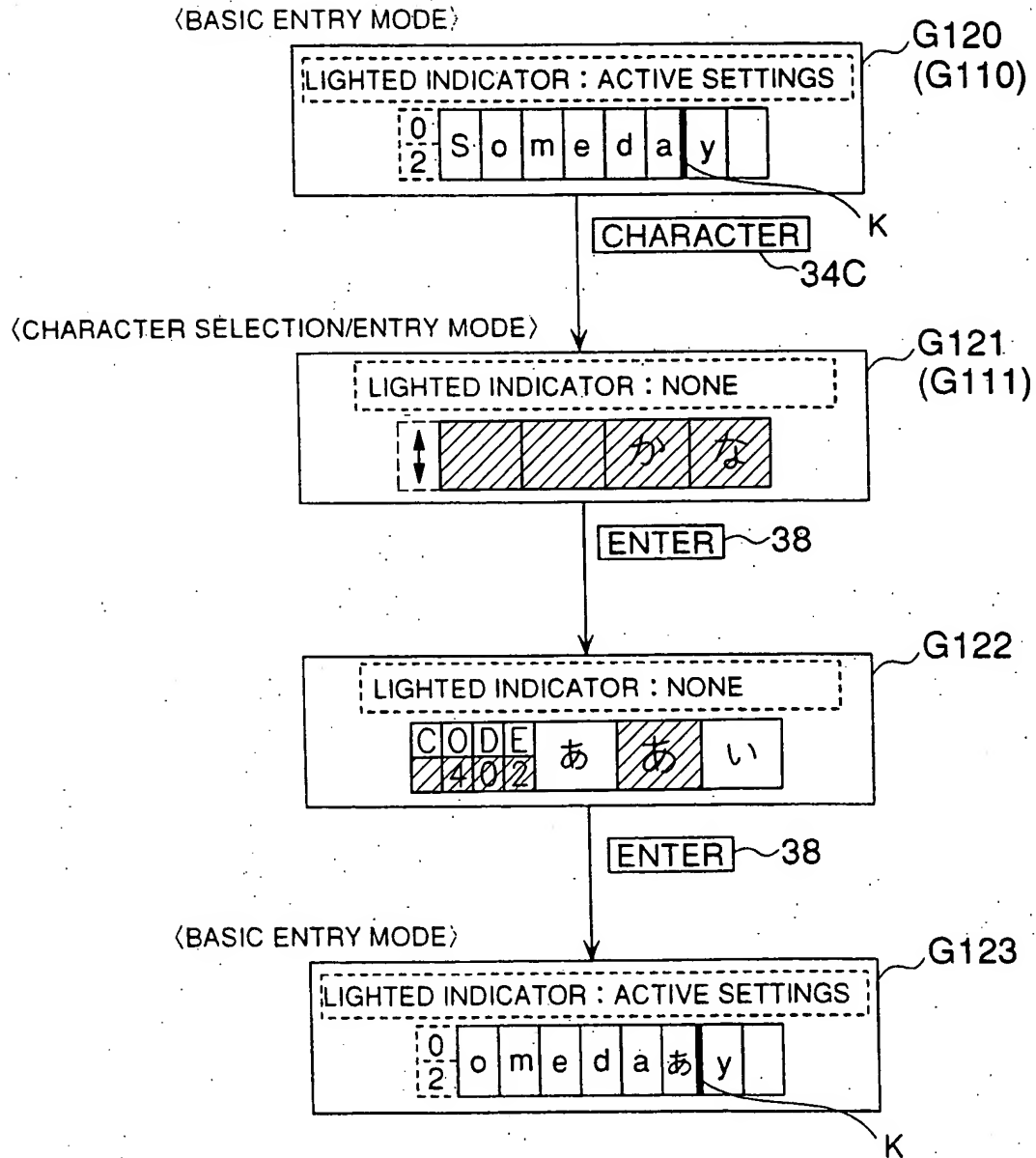
56/76

FIG. 58

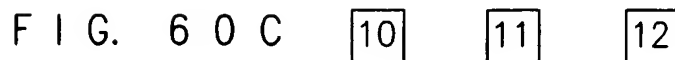
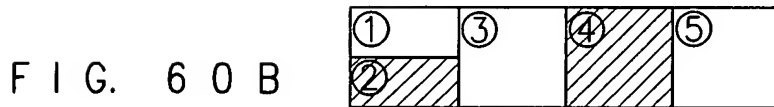
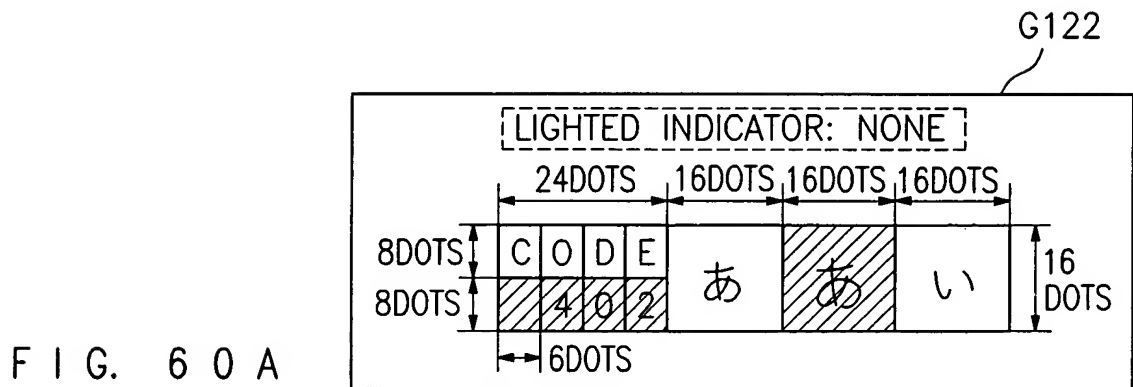


57/76

FIG. 59



58/76



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	あ	あ	い	い	う	う	え	え	お	お	—	—	—	—	—
	0401	0402	0403	0404	0405	0406	0407	0408	0409	0410					
2	か	が	き	ぎ	く	ぐ	け	げ	こ	こ	—	—	—	—	—
	0411	0412	0413	0414	0415	0416	0417	0418	0419	0420					
3	さ	ざ	し	じ	す	ず	せ	ぜ	そ	ぞ	—	—	—	—	—
	0421	0422	0423	0424	0425	0426	0427	0428	0429	0430					
4	た	だ	ち	ち	っ	っ	っ	て	で	と	ど	—	—	—	—
	0431	0432	0433	0434	0435	0436	0437	0438	0439	0440	0441				
5	な	に	ぬ	ね	の	—	—	—	—	—	—	—	—	—	—
	0442	0443	0444	0445	0446										
6	は	ば	ぱ	ひ	び	び	ぶ	ぶ	ぶ	へ	べ	べ	ほ	ほ	ほ
	0447	0448	0449	0450	0451	0452	0453	0454	0455	0456	0457	0458	0459	0460	0461
7	ま	み	む	め	も	—	—	—	—	—	—	—	—	—	—
	0462	0463	0464	0465	0466										
8	や	や	ゆ	ゆ	よ	よ	—	—	—	—	—	—	—	—	—
	0467	0468	0469	0470	0471	0472									
9	ら	り	る	れ	ろ	—	—	—	—	—	—	—	—	—	—
	0473	0474	0475	0476	0477										
10	わ	わ	ゐ	ゑ	を	ん	—	—	—	—	—	—	—	—	—
	0478	0479	0480	0481	0482	0483									

60/76

F I G. 6.2

あ	あ	い	い	う	う	え	え	お	お		
か	が	き	ぎ	く	ぐ	け	げ	こ	こ		
さ	ざ	し	じ	す	ず	せ	ぜ	そ	ぞ		
た	だ	ち	ち	っ	っ	づ	づ	て	て	と	ど
な	に	ぬ	ね	の							
は	ば	ぱ	ひ	び	び	ふ	ぶ	ぷ	へ	べ	ぽ
ま	み	む	め	も							
や	や	ゆ	ゆ	よ	よ						
ら	り	る	れ	る							
わ	わ	ゐ	ゑ	を	ん						

あ	あ	い	う	う	え	え	お	お	
か	が	き	ぎ	く	ぐ	け	げ	こ	ご
さ	ざ	し	じ	す	ず	せ	ぜ	そ	ぞ
た	だ	ち	ぢ	っ	つ	づ	て	で	と
な	に	ぬ	ね	の					
は	ば	ぱ	ひ	び	ぴ	ふ	ぶ	ぷ	へ
ま	み	む	め	も					
や	ゃ	ゆ	ゅ	よ	ょ				
ら	り	る	れ	ろ					
わ	わ	ゐ	ゑ	を	ん				

あ	い	う	え	お
か	き	く	け	こ
さ	し	す	せ	そ
た	ち	つ	て	と
な	に	の		
は	は	ひ	ふ	ほ
ま	む	も		
や	ゆ	よ		
ら	れ	ろ		
わ		を		

5965

[illegible]

[illegible]

あ い う え お

あ	い	う	え	お	
か	き	く	け	こ	
さ	し	ず	ぜ	そ	
た	ち	つ	て	と	
な	ね	の			
は	ひ	び	ふ	ぶ	ほ
ま	め	も			
や	ゆ	よ			
わ	れ	ろ			
わ	ゐ	を			

66/76

FIG. 68

i \ j	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	ア	ア	イ	イ	ウ	ウ	エ	エ	オ	オ	—	—	—	—	—
	0501	0502	0503	0504	0505	0506	0507	0508	0509	0510	—	—	—	—	—
2	カ	ガ	キ	ギ	ク	グ	ケ	ゲ	コ	ゴ	—	—	—	—	—
	0511	0512	0513	0514	0515	0516	0517	0518	0519	0520	—	—	—	—	—
3	サ	ザ	シ	ジ	ス	ズ	セ	ゼ	ソ	ゾ	—	—	—	—	—
	0521	0522	0523	0524	0525	0526	0527	0528	0529	0530	—	—	—	—	—
4	タ	ダ	チ	ヂ	ツ	ツ	ツ	テ	デ	ト	ド	—	—	—	—
	0531	0532	0533	0534	0535	0536	0537	0538	0539	0540	0541	—	—	—	—
5	ナ	ニ	ヌ	ネ	ノ	—	—	—	—	—	—	—	—	—	—
	0542	0543	0544	0545	0546	—	—	—	—	—	—	—	—	—	—
6	ハ	バ	パ	ヒ	ビ	ピ	プ	ブ	プ	ヘ	ベ	ペ	ホ	ボ	ポ
	0547	0548	0549	0550	0551	0552	0553	0554	0555	0556	0557	0558	0559	0560	0561
7	マ	ミ	ム	メ	モ	—	—	—	—	—	—	—	—	—	—
	0562	0563	0564	0565	0566	—	—	—	—	—	—	—	—	—	—
8	ヤ	ヤ	ユ	ユ	ヨ	ヨ	—	—	—	—	—	—	—	—	—
	0567	0568	0569	0570	0571	0572	—	—	—	—	—	—	—	—	—
9	ラ	リ	ル	レ	ロ	—	—	—	—	—	—	—	—	—	—
	0573	0574	0575	0576	0577	—	—	—	—	—	—	—	—	—	—
10	ワ	ワ	ヰ	ヱ	ヲ	ン	ヴ	カ	ケ	—	—	—	—	—	—
	0578	0579	0580	0581	0582	0583	0584	0585	0586	—	—	—	—	—	—

i \ j	1	2	3	4	5	6	7	8	9	10	11	12	13
1	A	B	C	D	E	F	G	H	I	J	K	L	M
	0333	0334	0335	0336	0337	0338	0339	0340	0341	0342	0343	0344	0345
2	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357	0358
3	a	b	c	d	e	f	g	h	i	j	k	l	m
	0365	0366	0367	0368	0369	0370	0371	0372	0373	0374	0375	0376	0377
4	n	o	p	q	r	s	t	u	v	w	x	y	z
	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390

68/76

FIG. 70

i \ j	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	0
	0317	0318	0319	0320	0321	0322	0323	0324	0325	0316
2	I	II	III	IV	V	VI	VII	VIII	IX	X
	10833	10834	10835	10836	10837	10838	10839	10840	10841	10842
3	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
	10843	10844	10845	10846	10847	10848	10849	10850	10851	10852
4	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
	10853	10854	10855	10856	10857	10858	10859	10860	10861	10862

69/76

FIG. 71

	1	2	3	4	5	6	7		15		94
1	亜	啞	娃	阿	哀	愛	挨		渥		薩
	1601	1602	1603	1604	1605	1606	1607		1615		1694
2	院	陰	隱	韻	吋	右	宇		丑		忒
	1701	1702	1703	1704	1705	1706	1707		1715		1794

68	8301	8302	8303	8304	8305	8306	8307		8315		8394
69	堯	楨	遙	瑤	凜	熙	—		—		—
	8401	8402	8403	8404	8405	8406					

70/76

FIG. 72

i \ j	1	2	3	4	5	6	7	8	9	10
1		,	.	,	.	.	:	;	?	!
	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110
2		.	.	.	.	.	—	—	\	✓
	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120
3		>	<	"	△	▽	○	—	—	—
	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130
4		/	\	~	||	|	...	..	'	"
	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140
5		"	()	[]	[]	[]	{ }	{ }	{ }	<
	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150
6		>	《 》	「 」	「 」	「 」	「 」	[]	[]	+
	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160
7		—	±	×	÷	=	≠	<	>	≤ ≥
	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170
8		∞	∴	♂	♀	°	'	"	℃	¥ \$
	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180
9		¢	£	%	#	&	*	@	§	☆ ★
	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190
10		○	●	◎	◇	—	—	—	—	—
	0191	0192	0193	0194						
11		◆	□	■	△	▲	▽	▼	※	〒 →
	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210
12		←	↑	↓	=	—	—	—	—	—
	0211	0212	0213	0214						

71/76

FIG. 73

i \ j	1	2	3	4	5	6	7	8	9	10
1		,	.	,	.	.	:	:	?	!
	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110
2	.	.	.	.	.	.	—	—	\	✓
	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120
3	>	<	”	全	々	ノ	○	—	—	-
	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130
4	/	\	~	||	|	...	...	.	.	“
	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140
5	”	()	[]	[]	{	}	<
	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150
6	>	《	》	「	」	『	』	【	】	+
	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160
7	—	±	×	÷	=	≠	<	>	≤	≥
	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170
8	∞	∴	♂	♀	°	′	″	℃	¥	\$
	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180
9	¢	£	%	#	&	*	@	\$	—	—
	0181	0182	0183	0184	0185	0186	0187	0188		
10	☆	★	○	●	◎	—	—	—	—	—
	0189	0190	0191	0192	0193					
11	◇	◆	□	■	△	▲	▽	▼	—	—
	0194	0201	0202	0203	0204	0205	0206	0207		
12	※	〒	→	←	↑	↓	=	—	—	—
	0208	0209	0210	0211	0212	0213	0214			

72/76

FIG. 74

i \ j	1	2	3	4	5	6	7	8	9	10	11
1		.	°	,	.	.	:	;	?	!	—
	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	
2		.	.	.	.	.	—	—	\	∨	—
	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	
3	>	∫	”	全	々	ノ	○	—	—	—	—
	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	
4	/	\	~	||	|	...	..	'	'	"	"
	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141
5	()	[]	[]	{ }							—
	0142	0143	0144	0145	0146	0147	0148	0149			
6	< >	《 》	「 」	『 』	[]						—
	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	
7	+	—	±	×	÷	=	≠	<	>	≤	≥
	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170
8	∞	∴	♂	♀	°	'	”	℃	¥	\$	—
	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	
9	¢	£	%	#	&	*	@	§			—
	0181	0182	0183	0184	0185	0186	0187	0188			
10	☆	★	○	●	◎						—
	0189	0190	0191	0192	0193						
11	◇	◆	□	■	△	▲	▽	▼			—
	0194	0201	0202	0203	0204	0205	0206	0207			
12	※	〒	→	←	↑	↓	=				—
	0208	0209	0210	0211	0212	0213	0214				

73/76

F I G . 7 5

DISPLAY ORDER	TITLE OF SYMBOL GROUP				DISPLAY ORDER	TITLE OF SYMBOL GROUP			
1	01	音	楽		14	14	星	座	
2	02	ビ	デ	オ	15	15	自	然	
3	03	あ	そ	び	16	16	乗	り	物
4	04	記	述		17	17	食	べ	物
5	05	省	略		18	18	暮	ら	し
6	06	カ	ッ	コ	19	19	家	族	
7	07	数	字		20	20	仕	事	
8	08	矢	印		21	21	ギ	リ	ャ
9	09	図	形		22	22	欧	州	大
10	10	学	術		23	23	欧	州	小
11	11	丸	付	き	24	24	発	音	
12	12	単	位		25	25	野	線	
13	13	生	き	物					

74/76

FIG. 76

TITLE OF SYMBOL GROUP	JAPANESE GRAPHIC CHARACTER CODE FOR MD	SHIFT JIS	NAME	
01 音楽 (MUSIC)	0 0 2 8 6	8 1 F 4	SINGLE NOTE	♪
	1 0 9 2 2	F 7 5 5	DOUBLE NOTE	♫
	1 0 9 2 3	F 7 5 6	G CLEF	♩
	1 0 9 2 4	F 7 5 7	F CLEF	♮
	0 0 2 8 4	8 1 F 2	SHARP	#
	0 0 2 8 5	8 1 F 3	FLAT	b
	1 0 9 2 5	F 7 5 8	REST	♯
	1 0 9 2 6	F 7 5 9	NATURAL	h
	1 0 9 2 7	F 7 5 A	MINOR CODE	m
	1 0 9 2 8	F 7 5 B	MAJOR CODE	maj
	1 0 9 2 9	F 7 5 C	SUS CODE	sus
	1 0 9 3 0	F 7 5 D	AUGMENT	aug
	1 0 9 3 1	F 7 5 E	DIMINISH	dim
	1 0 9 3 2	F 7 5 F	ADD CODE	add
	1 2 1 2 1	F A B 3	DOUBLE NOTE · SLANTED	
	1 2 1 2 2	F A B 4	SINGER	
	1 2 1 2 3	F A B 5	STAND BEFORE MICROPHONE	
	1 1 0 4 1	F 7 C 7	EMOTION · SING(MICROPHONE)	♪
	1 2 1 2 4	F A B 6	TRUMPET	
	1 2 1 2 5	F A B 6	GUITAR	
	1 2 1 2 6	F A B 8	KEYBOARD	

75/76

FIG. 77

TITLE OF SYMBOL GROUP	JAPANESE GRAPHIC CHARACTER CODE FOR MD	SHIFT JIS	NAME	
04 記述 (DESCRIPTION)	0 0 1 0 2	8 1 4 1	PUNTUATION	.
	0 0 1 0 3	8 1 4 2	FULLSTOP	。
	0 0 1 0 4	8 1 4 3	COMMA	,
	0 0 1 0 5	8 1 4 4	PERIOD	。
	0 0 1 0 6	8 1 4 5	MIDPOINT	.
	0 0 1 0 7	8 1 4 6	COLON	:
	0 0 1 0 8	8 1 4 7	SEMICOLON	;
	0 0 1 0 9	8 1 4 8	QUESTION MARK	?
	0 0 1 1 0	8 1 4 9	EXCLAMATION MARK	!
	0 0 1 1 1	8 1 4 A	VOICED SOUND MARK	・
	0 0 1 1 2	8 1 4 B	SEMIVOICED SOUND MARK	・
	0 0 1 1 3	8 1 4 C	ACUTE ACCENT	・
	0 0 1 1 4	8 1 4 D	GRAVE ACCENT	・
	0 0 1 1 5	8 1 4 E	DIAERESIS	・
	0 0 1 1 6	8 1 4 F	CIRCUMFLEX ACCENT	・
	0 0 1 1 7	8 1 5 0	OVER LINE	—
	0 0 1 1 8	8 1 5 1	UNDER LINE	—
	0 0 1 1 9	8 1 5 2	KATAKANA REPEAT	ヽ
	0 0 1 2 0	8 1 5 3	KATAKANA VOICED SOUND REPEAT	ヾ
	0 0 1 2 1	8 1 5 4	HIRAGANA REPEAT	ゝ
	0 0 1 2 2	8 1 5 5	HIRAGANA VOICED SOUND REPEAT	ゞ
	0 0 1 2 3	8 1 5 6	DITTO MARK	ゞ
	0 0 1 2 4	8 1 5 7	SAME-AS-ABOVE MARK	々
	0 0 1 2 5	8 1 5 8	REPEAT	々
	0 0 1 2 6	8 1 5 9	CLOSE SIGN	ノ
	0 0 1 2 8	8 1 5 B	EN DASH	—
	0 0 1 2 9	8 1 5 C	EM DASH	—
	0 0 1 3 0	8 1 5 D	HYPHEN	-
	0 0 1 3 1	8 1 5 E	SLASH	/
	0 0 1 3 2	8 1 5 F	BACK SLASH	\
	0 0 1 3 3	8 1 6 0	SWUNG DASH	～
	0 0 1 3 6	8 1 6 3	3 POINT LEADER	...
	0 0 1 3 7	8 1 6 4	2 POINT LEADER	..
	0 0 1 8 8	8 1 9 8	SECTION MARK	§
	0 0 2 8 7	8 1 F 5	DAGGER	†
	0 0 2 8 8	8 1 F 6	DOUBLE DAGGER	‡
	0 0 2 8 9	8 1 F 7	PARAGRAPH SIGN	¶
	1 0 7 0 2	F 6 4 1	INVERTED EXCLAMATION MARK	¡
	1 0 7 3 2	F 6 5 F	INVERTED QUESTION MARK	¿

76/76

FIG. 78

TITLE OF SYMBOL GROUP	JAPANESE GRAPHIC CHARACTER CODE FOR MD	SHIFT JIS	NAME	
05 省略 (OMISSION)	0 0 1 1 9	8 1 5 2	KATAKANA REPEAT	ゝ
	0 0 1 2 0	8 1 5 3	KATAKANA VOICED SOUND REPEAT	ゞ
	0 0 1 2 1	8 1 5 4	HIRAGANA REPEAT	ゎ
	0 0 1 2 2	8 1 5 5	HIRAGANA VOICED SOUND REPEAT	ゑ
	0 0 1 2 3	8 1 5 6	DITTO MARK	ゞ
	0 0 1 2 4	8 1 5 7	SAME-AS-ABOVE MARK	全
	0 0 1 2 5	8 1 5 8	REPEAT	々
	0 0 1 2 6	8 1 5 9	CLOSE SIGN	ノ
	0 0 1 2 8	8 1 5 B	EN DASH	—
	0 0 1 3 6	8 1 6 3	3 POINT LEADER	...
	0 0 1 3 7	8 1 6 4	2 POINT LEADER	..
	0 0 1 8 4	8 1 9 4	NUMBER	#
	0 0 1 8 5	8 1 9 5	AMPERSAND	&
	1 0 9 1 0	F 7 4 9	SUPERSCRIPT TRADE MARK	TM
	1 0 9 1 1	F 7 4 A	SUPERSCRIPT SHARP	#
	1 0 9 1 2	F 7 4 B	SUPERSCRIPT FLAT	b
	1 0 9 3 3	F 7 6 0	HOT SPRING MARK	♨
	1 0 9 3 4	F 7 6 1	SHRINE MARK	㊦
	1 0 9 3 5	F 7 6 2	TEMPLE MARK	㊧
	1 0 9 3 6	F 7 6 3	POSTAL MARK	〒
	1 0 9 3 7	F 7 6 4	TELEPHONE MARK	☎
	1 0 9 3 8	F 7 6 5	FACSIMILE	Fax
	1 1 0 1 0	F 7 A 8	COPY	COPY
	1 1 0 1 1	F 7 A 9	KEEP	KEEP
	1 1 0 1 2	F 7 A A	MASTER	MST